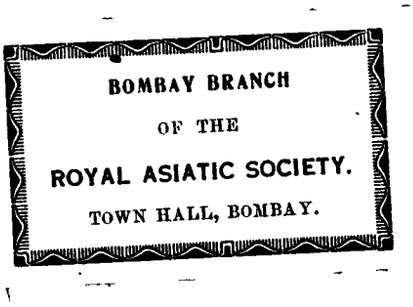
Administration Report of the Forest Department, Madras Presidency. 1909-10 to 1911-12

00134088



Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020

ANNUAL ADMINISTRATION REPORT

OF THE

FOREST DEPARTMENT

OF THE

MADRAS PRESIDENCY

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1910.

(1909-1910.)

134088

00134088

20/5/11

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1911.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY.

NORTHERN CIRCLE, 1909-1910.

Chapter.	Subject.	Paras.
I	Constitution of State Forests—	
	1. Alteration in area	1 & 2
	2. Forest settlement	3
	3. Demarcation	4
	4. Forest surveys	5 & 6
II	Management of State Forests—	
	1. Regulation of management—	
	(a) Preparation and control of regular working-plans ...	7 & 8
	(b) Preliminary working-plans reports	9
	(c) Annual plan of operations	10
	2. Communications and Buildings—	
	(a) Roads and bridges	11
	(b) Buildings	11
	(c) Miscellaneous works	11
	3. Protection of Forests—	
	(a) General protection	12 to 15
	(b) Protection from fire	16 to 18
	(c) Protection from cattle	19 & 20
	(d) Protection against injuries from natural causes ...	21
	4. Sylviculture—	
	(a) Natural reproduction	22
	(b) Artificial reproduction	23
	(c) Operations for improvement of the growing stock ...	24
	(d) Experiments	25
	5. Exploitation—	
	(a) System of management—	
	(i) Major Forest produce	26 to 30
	(ii) Minor Forest produce	31 to 34
	(b) Agency of Exploitation—	
	(i) Departmental agency	35 & 36
	(ii) By purchasers	37
	(iii) Rights and privileges	38
	(iv) Free grants	39
	(c) Outturn and sources of forest produce	40
III	Financial results	41
IV	Administration	42 to 56
V	General	57 to 68
	Appendices A to I and Forms Nos. 65 to 86 and 72-A and 72-B (old Code).	

FOREST ADMINISTRATION REPORT

OF THE NORTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1910.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. ALTERATION IN AREA.

The following abstract from Form No. 65 shows the changes in forest areas during the year :—

Class.	Area on 1st July 1909.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1910.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Reserved forests	5,791	17	..	+ 17	5,808
Do. lands	116	20	6	+ 14	130
Leased forests	63	..	..	..	63
Total ..	5,970	37	6	+ 31	6,001

Eleven square miles were added to *Kurnool West* reserved forests by rectification of area ; $5\frac{1}{2}$ square miles were made reserved lands in *Kistna* under section 26 ; and with these exceptions, and of areas under $\frac{1}{4}$ square mile respectively in *Vizagapatam*, *Bellary* and *Ganjám*, all the changes occurred in *Anantapur*.

Five hundred and forty square miles of reserved forest transferred from the Central Provinces to the *Upper Gódávari* district have not been brought into account, as it has been ruled that they must be reserved *ab initio* under the Madras Forest Act.

2. The total area under the control of the Forest Department is 6,001 square miles, which (excluding zamindaries and inams) is 23·87 per cent. of the total area.

2. FOREST SETTLEMENT.

3. Ten blocks (88 square miles) remained to be constituted reserved forests at the commencement of the year ; four new blocks (11 square miles) were added ; four blocks (6 square miles) were constituted reserved forests ; leaving 10 blocks (93 square miles) at the close of the year. Of these ten, Settlement reports were submitted to Board and Government for three blocks (7 square miles) ; settlement completed, but not reported on, for two blocks (75 square miles) pending appeals, one by Government to the Privy Council for 75 square miles in *Lower Gódávari*, the other by parties to the District Court for less than one square mile in *Anantapur* ; and settlement proceeding for five blocks (11 square miles).

3. DEMARCATION.

4. At the close of the year 9,140 miles of outer demarcation line were completed, only 79 remaining to be done. During the year Rs. 11,653 were spent on demarcation, Rs. 5,506 on new works and Rs. 6,147 on repairs. Form No. 67 shows that Rs. 2,551 were spent on 154 miles of new external lines during the year, the balance Rs. 2,955 on other works, including internal boundary lines, for which, however, figures were not separately shown in some district reports. 2,185 miles were recleared

free of cost by forest subordinates against 2,040 miles in the previous year. The system of demarcation was the same as in previous years. The average cost of demarcation per mile in the circle was Rs. 33-15-10 against Rs. 58-11-9 in the previous year, the difference being due to getting labour at a cheaper rate. The selection and demarcation of the Chokapad forests was completed by June; but the survey cannot be undertaken till the rains are over.

4. Forest Surveys.

(*a*) *By Survey of India Party.*

5. No new work was undertaken by this party during the year; but one map (4 inches = 1 mile) was prepared at Dehra Dun.

(*b*) *By Departmental Survey.*

6. During the year Rs. 8,443 were spent on forest surveys; and maps were prepared for 122 square miles of reserved forests. In *Ganjám*, 40 maps were prepared and 107 lineal miles were surveyed; in *Upper Gódávari*, 62 lineal miles were surveyed; in *East Kurnool* two surveyors traced forest roads on the Nallamalais; in the other districts one surveyor-draftsman was employed; in *West Kurnool* marking out and mapping coupes (Yerramalais); in *Bellary* (6 months) surveying fire lines in Sandur forests; and in *Anantapur* correcting reserve boundaries.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working-plans.*

7. During the year Rs. 486 were spent on working-plans. No new working-plans were sanctioned by the Board. In *Bellary*, a working-plan was sent by the District Forest-officer for Harpanahalli Range (112 square miles), of which proofs are now being corrected. In *Upper Gódávari* those for Bhadrachallam (103 square miles) and Marrigudem (121 square miles) Ranges, submitted last year, were returned by the Board for modification, and were received back revised, after the end of the official year, in the Conservator's office where they are under scrutiny. In *Kistna* one for Bezwada Range (30 square miles) was prepared, but submitted after the close of the year. In *Lower Gódávari*, revised plans for Kandikuppa (15 square miles) and Coringa (13 square miles) were also prepared, likewise submitted after the close of the year. In *Kistna*, the revision of Gopuvanipalem plan is delayed by some discrepancy in the original survey. In *Kurnool West*, the Yerramalai working-plan appears to require some modification. The question of preparing quinquennial programmes, where working-plans cannot immediately be drawn up, is under consideration.

8. The prescriptions of the sanctioned working-plans have been generally adhered to. Important exceptions are noted below:—

In *Ganjám*, the working-plan of Agastinowgam plantation was again departed from owing to the continued ravages of fungus and borer; the sâl coupes in Kullada and Jagannathprasad reserves were worked departmentally instead of by contract as it was found to be generally more satisfactory; a coupe at Jillundi was opened instead of that at Siddapodoro; a cyclone flooding the market with fuel, no fellings on Mohiri Hills were made. In *Lower Gódávari*, no extraction of small timber from some of the Peddapur range reserves was undertaken for want of demand; the working-plan of Kandikuppa had to be departed from owing to the existence of fungus. In the Yerramalais of *West Kurnool* sowings on mounds was substituted for dibbling in of seeds which proved a failure, and, mound sowing being more expensive, only 1/30 of the area could be undertaken; and in two coupes in *Kurnool* Working Circle shortage of stock prevented any felling. In *Bellary* similarly no fellings were made in Adóni, Bellary or the Alur Hills; in the Alur Babul Working Circle two other compartments in place of those prescribed were felled to admit of special cultural operations.

(*b*) *Preliminary Working Plan Reports.*

9. Working plans are under preparation in *Kistna* for Ellore range (63 sq. miles); in *Bellary* for Sandúr range (103 sq. miles); and in *Anantapur* for Muchukota range (77 sq. miles), the change of officers in the last district has interrupted the preparation of this. Owing to the ill-health and changes of District Forest-officers, no progress was made in the working plans for Rajahmundry and Pólavaram ranges in *Lower Gódávari*; a preliminary report for the Owk Palmyra extension reserve prepared by the Sub-divisional officer, *West Kurnool*, was returned for correction.

(*c*) *Annual Plan of Operations.*

10. The sanctioned plans were generally followed, except as detailed under working plans, and in the following instances:—

In *Ganjám* 4 rest-houses and 3 wells were not constructed to leave funds for certain roads considered more urgent. In *Vizagapatam* no bamboos were cut departmentally in Golgonda range for want of demand and of proper transport roads; the permanent demarcation of Sarugudu block was not undertaken as the settlement is incomplete; no more rubber plants were planted. In *Lower Gódávari* bamboo coupes in Rajahmundry range were not worked departmentally but sold to contractors. In *Kistna* the road from Dongamarlabhavi to Duggiralpad and building at Dongamarlabhavi could not be completed before the end of the year, nor the creeper cutting in Erraguntapalli reserve. In *East Kurnool* less dead timber was extracted from want of demand, and less minor produce was collected from poor harvest. In *Bellary* only a fourth of the intended quantity of fuel from Ramandrug hills was felled owing to shortage of labour monopolized by the Railway construction works; grass cutting operations, originally contemplated, were ordered to cease; the roads in Adoni range were transferred to famine relief projects, and those in Alúr, Bellary and Sandúr ranges could not be undertaken; and some buildings were deferred to enable other more urgent works to be pushed through; 100 acres instead of 200 were planted at Moka owing to lack of labour and funds, reverting to the original scheme.

2. Communications and Buildings.

11. The following figures show the outlay on communications and buildings during the year, as compared with those of the previous year:—

	1908–1909.	1909–1910.
	Rs.	Rs.
Roads and bridges	22,944	25,191
Buildings	66,846	79,216
Other works	5,408	7,374

There was increase under all the heads. The increase under roads and bridges was contributed by all districts except *Direction* and *Upper Gódávari*; that under buildings by *Direction*, *Ganjám*, *Lower Gódávari*, *East Kurnool* and *Bellary* and that under "other works" by *Direction*, *Vizagapatam*, *Kurnool*, *East* and *West*.

(*a*) *Roads and Bridges.*

The important works of a permanent nature carried out were:—*Ganjám*—Construction of four forest roads aggregating $7\frac{3}{4}$ miles; repair of one forest road and two cart-tracks. *Lower Gódávari*—construction of a branch road to Jaggampeta high road; repair of Ramaniahpeta and Lododdi roads. *Kistna*—repair of Dongamarlabhavi road. *East Kurnool*—repair of 8 miles of Malakondapenta ghât road. *Kurnool, West*—Mr. Eber-Hardie, special officer deputed for constructing ghât roads and buildings, finished Palerdam-Gundlabrahmeswaram road, Bairluti-Rollapenta road, Rollapenta-Pecheruvu road, and Sudam-Tekulapenta foot path; Palerdam-Chelama road was nearly finished, Gundlabrahmeswaram-Adutla road was in progress.

Tramways, etc.—The Monorail in *Lower Gódávari* did not work during the year as the contractor for the fuel of Bendamurlanka plantation used other means of

conveyance. The Revenue account of the railway shows a net loss of Rs. 192 after deducting the year's charges on account of interest and depreciation.

(*b*) *Buildings.*

The important works of a permanent nature attended to during the year are noted below:—*Ganjám*—rest-house at Bontha and range office with quarters at Surada completed; rest-houses at Gogodo and Kaliyamba nearly completed; Range office with quarters at Buguda and Gazilbadi commenced. *Upper Godávari*—construction of range offices and quarters in progress; *Lower Godávari*—rest-houses at Lododdi and Rajavommangi constructed; rest-house at Puliramunigudem extended, and rest-house at Muliyalempalli repaired. *Kistna*—range and subordinate quarters partly constructed at Dongamarlabhavi. *East Kurnool*—rest-house at Cumbum and Extra Assistant Conservator's quarters at Markapur completed; Range offices with quarters at Dornal and Markapur in progress. *West Kurnool*—Deputy Ranger's quarters and shops at Nagaluti, Bairluti and Pecheruvu completed; rest-house at Nagaluti, subordinates' quarters at Rudrakod, Velgode, Pasurutla, Pangidi and Range office at Rudravaram in progress. Five buildings and two out-houses at Gundlabrahmeswaram were finished by Mr. Eber-Hardie, and those at Pecheruvu were in progress. *Bellary*—bungalows constructed at Kupgal, Banavasi and on the Copper Mountains and Deputy Rangers' quarters at Moka and Doni. *Anantapur*—rest-houses at Pamidi, Rolla and Togarikunta completed; that at Muchukota and Range office at Tadpatri in progress.

(*c*) *Miscellaneous Works.*

The chief works done were deepening the bed of a tank, digging new wells, deepening and repairing old ones, and construction of fences and walls for reserves and depots.

3. Protection of Forests.

(*a*) *General Protection.*

12. The following statement shows the number and classification of forest offences brought to light during the year:—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.
1. Cases taken into court.	19	11	1,008	846	476	407	134	106	1,637	1,370
2. Cases compounded ..	9	6	1,447	1,551	1,456	1,259	328	187	3,240	3,003
3. Cases undetected ..	65	133	274	107	161	96	39	9	539	345
Total ..	93	150	2,729	2,504	2,093	1,762	501	302	5,416	4,718

The total number of new cases was 4,718. The number of cases reported was less by 516 than the average of the three previous years, the fall occurring in *Lower Gódávari*, *Kurnool East*, *Kurnool West*, *Bellary* and *Anantapur* under "Unauthorised felling", and in all but *Upper* and *Lower Gódávari* under "Illicit grazing". The decrease is due to better supervision. 1,084 cases were pending at the beginning of the year and 738 at its end; 378 of the latter were pending with Magistrates.

13. The following statement shows the result of cases brought to trial:—

1908-1909.		1909-1910.		Percentage of failure.	
Convictions.	Acquittals.	Convictions.	Acquittals.	1908-1909.	1909-1910.
1,395	194	1,248	226	12·21	15·33

A high percentage of failure appears in *Ganjám*, *Lower Gódávari*, *Kurnool East*, but especially in *Kurnool West*, and *Anantapur* and was due to careless enquiry and insufficient investigation. This combined with the fact that the Conservator on inspection found protection in *Anantapur* and the Yerramalais of *West Kurnool* less efficient than in most other districts, seems to indicate that matters are not altogether satisfactory in those parts; but in *Anantapur*, it is stated, several cases of illicit felling of babul branches for pods were acquitted by the magistrates on the ground that the contractors should be dealt with departmentally, and they were subsequently so disposed of. Besides the 1,474 cases shown above, 67 were withdrawn under the orders of the District Forest officers.

14. The following statement compares the number of cases compounded and the compensation fees realized with the figures of the previous year:—

1908-1909.		1909-1910.	
Number of cases.	Amount realised.	Number of cases.	Amount realised.
3,445	Rs. 28,501	2,876	Rs. 27,327

There was decrease in all districts but *Vizagapatam*, *Lower Godávari* and *Anantapur* which was due to the general fall in the number of offences committed; the difference in the amount collected is not much.

15. Rewards for detection of cases were granted as follows:—*Ganjám* and *Anantapur* to Abkári officers, Rs. 4 and Rs. 198–8–0 respectively; and in *Kurnool West* to Forest subordinates, Rs. 25.

(*b*) *Protection from Fire.*

16. The areas attempted and protected are given in Form 72; the system of protection continued to be the same as in previous years viz., fire tracing of boundaries, internal fire-line clearing, and the appointment of fire patrols to keep the lines clear and to be on the look out for fires; in the Northern Circars certain portions were allotted to hill men to be paid by the results. Besides the above the following was done in the districts:—In *Ganjám*, concession forms were given stating exactly what the duties of each village are and what concessions are allowed to each village; in *Vizagapatam* fire lines were widened and new areas were taken in; in *East* and *West Kurnool* the system of grubbing out stumps was continued, and cutting of guide lines and burning of grass was also undertaken in the latter district; in *Bellary* the margins of railway lines, roads and footpaths in and near some reserves were burnt; attempts are also being made to raise belts of densely growing trees and shrubs along fire lines to hinder the spread of fire. In *Ganjám* the fire season was more severe than in the previous year; in *Vizagapatam* timely showers helped in putting down fires; in *Upper Gódávari* the results were unsatisfactory, which the Range officers attributed to the severity of the season, but the District Forest-officer to carelessness on the part of the Range officers in failing to maintain fire lines properly or to supervise the work done; in *Lower Gódávari* 312 square miles against 313 in the previous year were reported to have escaped fire, but the Collector doubts the accuracy of the figures. In *East* and *West Kurnool*, *Bellary* and *Anantapur*, the season was exceptionally bad owing to the failure of the north-east monsoon, and fires commenced earlier than had ever been known.

17. Rupees 60,438 was spent during the year on fire protection operations, the area subjected to such measures was 2,079 square miles against 1,840 in the previous year; of these, 1,606 square miles were successfully protected against 1,646 in the previous year; the proportion of failures rose from 10·5 per cent. to 22·75 per cent. during the year, and the cost per square mile successfully protected from Rs. 35–3–5 to Rs. 37–10–1.

18. The following statement shows the number and origin of fires in the several districts :—

District.	A. Fires caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas. Owing to carelessness or accident. By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		By villagers, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Ganjám	14	3,124	17	1,947	1	1	12	550	..	..	..	..
Vizágapatám	1	20	17	1,300	..	..	5	1,550	..	..	..	..
Gódávari, Upper ..	4	1,651	20	119,695	..	..	2	2,150	..	..	..	..
Do. Lower ..	..	..	9	1,100	8	645	77	2,957	..	..	..	..
Kistna	..	..	7	1,058	..	..	..	..	..	..	..	..
Kurnool East	9	14,246	7	17,602	1	26	4	9,702	1	246	..	..
Do. West	7	1,373	12	12,717	3	1	10	9,376	..	..	..	..
Bellary	2	150	4	2,404	..	..	4	1,175	..	..	..	..
Anantapur	1	..	..	..	..	..	1	300	..	..	..	..
Total ..	38	20,564	93	157,823	13	673	115	27,760	1	246	..	..
Total for 1908–1909 ..	14	2,168	19	1,726	8	356	42	3,797	6	110	..	..

District.	C. Fires beginning inside the reserves or fire-traced areas—*cont.* By intentional firing. In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.		Causes unknown.		Total of A, B and C and causes unknown.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Ganjám	..	..	..	..	3	183	16	734	33	3,907	80	9,712
Vizágapatám	..	..	2	1,212	3	57	11	2,819	35	19,265	64	23,404
Gódávari, Upper ..	..	..	..	..	1	7,000	3	9,150	10	9,567	37	140,063
Do. Lower ..	..	..	2	600	..	..	87	4,202	4	250	100	5,552
Kistna	..	..	..	..	..	..	..	..	..	..	7	1,058
Kurnool East .. .	1	2,960	1	80	7	8,209	15	21,223	11	12,960	42	66,031
Do. West	6	3,000	17	85,662	4	57	40	98,096	70	244,396	129	356,582
Bellary	9	9,429	..	..	1	90	14	10,694	..	..	20	13,248
Anantapur	..	..	..	..	3	470	4	770	23	3,300	28	4,070
Total ..	16	15,389	23	87,554	22	16,066	190	147,688	186	293,645	507	619,720
Total for 1908-1909 ..	1	160	7	1,740	12	7,850	76	14,013	31	14,295	140	32,202

The number of fires and the area burnt were far in excess of the previous year, and are due to failure of north-east monsoon to the malignity of hill tribes in causing and apathy in putting out fires, to superstition of villagers that burning of grass was necessary for getting rain, to extraordinary severity of the hot weather, and to some extent carelessness of subordinates in fire-tracing or fire-extinguishing. As explained in Chapter V, the Chenchus of the Nallamalais misunderstood the object of the collection of Ippa flowers, and instead of helping to keep out fires they deliberately fired the forests.

(*c*) *Protection from Cattle.*

19. The areas open and closed to grazing in each district are shown in Form 73 and the number and kind of animals grazed free or on payment of fees are noted in Form 74. The area closed to all animals during the year was 814 square miles against 659 in the previous year, and that for a portion of the year 101 square miles against 136 of the preceding year. Goats were excluded from the reserved forests of all the districts except *Gódávari Lower*, *Kistna* and *Bellary*. The following concessions were allowed in the districts.—In *Vizagapatam* hillmen living near Dharakonda and Sanivaram reserves were allowed to graze their cattle (4,939) free, under a right admitted at the settlement of Sanivaram reserve; 200 cattle of Kondasantha were also allowed free grazing. In *Kistna* 7·67 square miles were closed in July 1909 and August 1909 to allow grass to grow to meet the demand for fodder for ploughing cattle from September 1909 to November 1909, and other cattle thereafter.

20. The following statement gives an analysis of the cattle impounded during the year with the average of the three years preceding:—

Districts.	From open forests.		From closed forests.				Total.		Average for three years ending 1908–1909.
			Holding permits for open forests.	Having no permits.	Holding permits for open forests.	Having no permits.			
	1908–1909.	1909–1910.	1908–1909.	1908–1909.	1909–1910.	1909–1910.	1908–1909.	1909–1910.	
Ganjám	679	3,448	..	1,185	..	450	1,864	3,898	2,687
Vizagapatam ..	1,581	2,555	..	667	..	68	2,248	2,623	2,496
Godávari, Upper.	27	13	..	..	..	..	27	13	292
Do. Lower.	883	1,154	49	207	..	135	1,139	1,289	638
Kistna ..	676	1,591	515	2,269	639	1,306	3,460	3,536	3,736
Kurnool East ..	7,873	5,543	..	502	..	3,652	8,375	9,195	9,384
Do. West ..	20,118	9,308		1,633		4,249	21,751	13,557	17,137
Bellary	16,238	12,287	3,718	3,979	2,178	2,727	23,935	17,192	19,617
Anantapur ..	9,579	9,780	..	1,301	..	1,490	10,880	11,270	10,691
Total ..	57,654	45,679	4,282	11,743	2,817	14,077	73,679	62,573	66,678

The decrease in the number of animals impounded during the year from that of the previous year was due chiefly to the great fall in *Kurnool West* and *Bellary*. No explanation was given in the report of the former district; and insufficient staff was attributed to be the cause in the latter, which can be hardly correct, as the staff there has been purposely made proportionately large to secure protection.

(*d*) *Protection against injuries from Natural Causes.*

21. In *Ganjam* the casuarina borer (*Arbela tetraonis*) and the casuarina fungus (*Trichosporum vesiculosum*) continued to spread in the Agastinowgam plantation; and the young sâl leaves in Kukuluba and Mojjagodo ranges were attacked by a caterpillar; the attack was in patches, and not general. In *Upper Gódávari* the damage to teak leaves by *Jassids* continued, but not on large areas as in previous years; Kondatangedu borer, sent to the Forest Zoologist at Dehra Dun in January 1909, remained still to be identified. In *Lower Gódávari* the Blister fungus (*Trichosporum vesiculosum*) continued to attack trees in Kandikuppa plantation; the trees attacked were removed to prevent spreading. In *Kistna*, the burning of debris after felling and before planting, and the admixture of evergreen broad-leaved species with casuarina was continued, and no damage was caused during the year by Borer or Blister fungus in any of the areas planted in recent years; in Gopuvanipalem old coupes several trees were attacked by Blister fungus, and they were removed to prevent the spread of the disease

4. Sylviculture.*

(*a*) *Natural Reproduction.*

22. In *Ganjám*, in all unburnt closed areas of Goomsur, reproduction was satisfactory; in felled areas sâl and other species, especially Sahajo, coppiced vigorously. In *Vizagapatam*, reproduction from coppice continued excellent in all areas either clear-felled or coppiced with standards. In *Upper Gódávari*, reproduction was fair, except that Yepi in Bhadráchalam did not flower; in the newly added Nugur range, hitherto largely overrun by fires, natural regeneration has been thrown back. In

* *Note.*—List of trees with their scientific names are to be found in Appendix H.

Lower Gódávari, reproduction was fair to good, Satinwood growing especially well in Rajahmundry Range hill reserves; coppice reproduction was good in felled coupes; in the swamps Mangrove reproduced prolifically from seed and sucker-shoots, but scarcely at all from coppice; the forty year rotation given for Coringa was found far too long, the seven year rotation of Kistna being about correct for usual requirements viz., wood about 1½ to 3 inches diameter; Mangrove flowers early (after about 1 to 2 years) and dies young (after about twenty years). In *Kistna*, in spite of the unfavourable season, Sundra, Chiruman, Soap-nut, Yepi and Somi came up well; coppice reproduction of Nallaregu and Neem in felled areas was vigorous; Mangrove was abundant in the swamp-forests; systematic thinnings in bamboo coupes considerably improved reproduction. In *East Kurnool*, reproduction, very promising at first, was suppressed by total failure of the north-east monsoon. In *West Kurnool*, on the Yerramalais, reproduction in protected fuel coupes was satisfactory, but in unprotected parts not so, owing to damage by cattle and scanty rain; coppice shoots were fair in parts; on the Nallamalais, reproduction from seed was fair at first, but the failure of the north-east monsoon and the occurrence of big fires caused considerable damage; bamboo regeneration in the hill portions of Nandyal Range was very extensive. In *Bellary*, Sandal and Satinwood in parts of Sandur Range protected from fire for three or four years reproduced themselves excellently, whilst much young growth of Anduga, Chiruman and Nallamaddi was also found. In the fenced hill reserves of Adóni and Alur Ranges the ground is fast becoming covered by thick shrubby growth, especially Korivi, Sabbali, Ulinda, Kalivi, Karehuli, Gotti and Rela; in parts of the rocky Adóni reserves the boulders are entirely covered by Korivi and Gotti; in unfenced reserves open to cattle, there is little or no reproduction except in patches protected by thorny bushes; experiments were instituted to compare coppice growth from low and high stools of Babul, but results cannot yet be given. Much success in producing sucker shoots attended the wounding of the roots of Rela. In *Anantapur*, natural reproduction was conspicuous in the closed areas of Kottakota, Gutur and Mallappakonda reserves of Penukonda Range despite the scanty rainfall; in all the other ranges there was a complete failure for want of rain.

(*b*) *Artificial Reproduction.*

23. Form 75 shows the areas under plantations and topes or subjected to cultural operations.

Regular plantations.—*Ganájm*, Agastinowgam casuarina plantation suffered much from cyclone. A nursery for planting 64 acres with mixed species was formed; blanks amongst logwood and mahogany were replanted; cashew-nut plants in Chatrapur reserve died from drought. *Lower Gódávari*, 38 acres in Kandikuppa and 18 acres in Bendamurlanka casuarina plantations were planted. *Kistna*, three plantations of 51 acres of mixed species (casuarina, sissoo, etc.) were planted. The seedlings are thriving well. *Kurnool East*, three out of the five teak and mixed plantations were abandoned as hopeless, but another was started; the plants, in the three maintained, fairly established themselves. *Kurnool West*, seven out of the eight teak and mixed plantations were extended, but owing to insufficient rainfall the plants did not establish themselves well, the older plants are doing well; a masonry dam and channel were constructed at Sudem by Mr. Eber-Hardie, minimising the water difficulty there; the Forest Member and the Collector inspected the plantations and the former expressed satisfaction on the work done. *Bellary*, the mixed casuarina, sissoo, etc, plantation at Moka was extended by 100 acres, and a nursery was formed. *General*:—Two important points impressed themselves on Conservator during his tours of inspection of the casuarina plantations; the first in connection with thinnings, the second in connection with watering. Under normal circumstances, casuarina planted 6′ apart interlace their branches after three years, planted 9′ apart after about four years; if not then thinned out the plantation becomes stifled, and there is a tendency to diseases of all kinds, fungus, borer, and the like; and, as the plants develop very rapidly, they require heavy thinning, preferably alternate trees in both directions at right angles. Planted 12′ apart they do not require such heavy thinning nor so soon, but the plants do not cover the ground sufficiently rapidly, consequently growth is not nearly so fast, and a great deal of increment is lost. Recent thinnings after three years in Kistna on the above principles gave 13 tons per acre which is hard to beat. As regards watering, the Gódávari working plans lays down hard-and-fast rules watering for three years, and plants on dunes get equal watering with

plants on low ground; those on dunes require much more water and for a much longer period than those on low ground where they are often established in one year; the ranger should go round twice a year, before the rains and after the rains, and estimate how many plants require how much water for the next period (more or less of six months) and see that it is properly distributed; hitherto many plants in the low ground have died from overwatering (probably causing fungus), and many in the high ground from underwatering. The height of the plant usually is equal to its depth below ground, and if that depth is within a foot of normal water level it can be said to have established itself.

Taungya plantations.—*Upper Gódávari*—No new area was treated under this method as the working plan was held in abeyance; blanks however were refilled. *Bellary.*—The black-cotton soils being overwhelmed with coarse "nuth" grass, cowles have been granted to certain ryots to cultivate free of charge on condition of sowing the seeds with their crops for the period of five years before systematic departmental cultural operations are made; the results so far are satisfactory, babul especially succeeding. Seven hundred and sixty five acres in Halaharivi reserve are thus being cultivated.

Cultural operations.—*Ganjám*—Bunds across streamlets were raised and seeds of soil-binding species were sown on the silted-up area. *Vizagapatam*—Blanks in Narasapatam fuel-working circle were refilled; palmyra sown on Vemagiri reserve boundary were almost entirely destroyed by pigs. *Upper Gódávari*—Nurseries were opened in five localities for transplanting basketted seedlings. *Lower Gódávari*—Certain felled coupes were resown with suitable seeds and the results were reported fair. *Kistna*—Sowings in felled coupes proved unsuccessful for want of rain, and in one case owing to submersion from the surplus water of an adjacent canal; one or two experiments made were not very successful. *West Kurnool*—Sowing in ploughed earth and dibbling in seed having proved useless on the Yerramalais, mound sowing was resorted to; the results were fair, but some damage was done by cattle; on the Nallamalais ploughing and sowing was continued with fair results. *Bellary*—On some hills sandal and other seeds were sown and Ficus cuttings planted; sandal alone thrived. On the plains mound sowing in red soils and furrow sowings on black ones were made with fair results, but in the very dry weather which followed almost all seedlings died down largely recovering again in the rains. *Anantapur*—Mound sowings were started in five working circles, germinated fairly successfully but died down considerably in the hot weather; Ficus cuttings on rocky places were unsuccessful.

(*c*) *Operations for Improvement of the Growing Stock.*

24. Improvement felling, thinning, coppicing, clear felling, cleaning and weeding, and removing dead wood for the improvement of growing stock are detailed under Exploitations.

Creeper cutting.—In *Ganjám*, this was done by subordinates, Khonds and fire patrols; in *Lower Gódávari*, by subordinates; in *Kistna*, systematically in the coupes prior to felling.

Fencing.—The fencing of coupes and compartments is undertaken in *Kistna*, *Bellary* and *Anantapur*, in the first two localities with most beneficial results; in *Kurnool West*, fencing is fixed up round areas under regeneration.

Bunding streams and gullies.—This is done in *Ganjám*, *Bellary*, *Anantapur* and *Upper Gódávari*; and was attempted in *East Kurnool* but not very successfully. In some parts of the first three named districts, the operation has been attended with a considerable measure of success, and a large amount of silt and moisture deposited behind the bunds, upon which silt and bunds young plants are already making their appearance.

(*d*) *Experiments.*

(i) On Species.

25. *Sandalwood.*—In the Conservator's compound at Waltair in *Vizagapatam*, there was great mortality amongst the sandal solely owing to the drought killing off the young hosts, but 1,036 still remain and are in a most flourishing condition,

two and half year old plants being 7 feet high; in *Lower Gódávari*, seed was put down in Rajahmundry reserve but said not to have germinated; whilst in *Kistna* seed put down in Kondapalli reserve germinated and is reported to be coming on very well. In *Kurnool West*, 1,500 basketted plants were put out over 15 acres at Pecheruvu and seed was dibbled in under bushes in fenced areas, the latter doing best. In *Bellary*, seed was dibbled in on some hill sides and ridges, and is thriving vigorously.

Mahogany.—7 lb. of mahogany seed were received in August by the Conservator, of which $\frac{3}{4}$ lb was given to the Local Fund Engineer, 6 lb. sent to Kurnool West, and $\frac{1}{4}$ lb. sown in the Conservator's compound at Waltair in *Vizagapatam*, which latter are doing well, as are the old trees; in *Ganjám*, only six remained out of the twenty-eight reported last year; and are not doing well, whilst the five old trees in the office compound were destroyed by the cyclone of October; in *Upper Gódávari*, three of the thirteen, reported to be living last year, died; in *West Kurnool*, the old trees at Nagaluti and Pecheruvu are doing well, and 1,150 put out in Rudrakod, Pangidi and Sudem plantations are flourishing.

Red sanders.—Two bags of seed were received by the Conservator, Waltair, in *Vizagapatam* from Cuddapah in March 1909; about 200 seedlings put out on the terraces are doing well, one being about 8 feet high; more seed was put down this year; in *Ganjám*, they were badly damaged by the cyclone, and did not seed during the year, but some coppiced; of the five in the *Upper Gódávari*, one died, the other four thriving; in *West Kurnool*, seed was indented for from Cuddapah and seedlings raised in baskets.

Padauk.—$\frac{1}{2}$ lb. seed was sown in the Conservator's compound, Waltair, *Vizagapatam*, in January, only five plants came up and are doing well; in *Kistna* $\frac{1}{4}$ lb. was sown but none germinated.

Yegi.—Sown, in *Ganjám*, on $\frac{1}{4}$ acre are reported to be not doing well.

Logwood.—At Waltair, *Vizagapatam*, about 500 young plants (seed from local old trees) were put out during the year, 200 put out last year are flourishing, as are the old plants; in *Ganjám*, they are one of the mixed species used in the Agastinowgam casuarina plantation to break the purity of the casuarina; in *Lower Gódávari*, those planted in 1901 are 14 feet high, but not healthy, of the 1903—planting eight are living and two dying.

Sissoo.—At Waltair, *Vizagapatam*, are growing very healthily and form one of the very best sandal hosts; those put out in 1907–1908 in *Lower Gódávari*, all died.

Divi Divi.—Those at Waltair, *Vizagapatam*, have come on very well; in the *Upper Gódávari* those at Edugurallapalli are flourishing, but those at Bhadráchalam died.

Camphor.—Under orders of the Board the watering of the camphor was stopped; on account of the drought it was an unfortunate season to do so, for out of 1,400 about 1,250 died and only 150 remained.

Rubber—(1) *Ceara.*—All those in Napier's park, *Ganjám*, were broken by the cyclone, but the pollards are sending out shoots. (2) *Assam.*—The old plants at Waltair, *Vizagapatam*, are healthy but making only slow progress, another 100 were put out during the year, and another 100 are ready in seed pans. (3) *Pará* and (4) *Cartagena*—in the Golgonda hills, *Vizagapatam*, were not reported upon.

Teak.—At Chatrapur, *Ganjám*, did not seed during the year owing to the cyclone.

Catalpa.—In Waltair, *Vizagapatam*, only five remain of which only three are healthy; in *Bellary*, of the 400 put out at Moka only 184 are still living; in *Ganjám* 3 of the 13 planted out last year died, and the remainder are doing well.

Cocoanut.—In *Ganjám* the Malabar plants were somewhat damaged by the cyclone; the plants in *Kistna* in the Weld, Kanukallu and Gopuvanipalem reserves are doing well; these are the Coromandel class.

Edible date.—In *Upper Gódávari*, those at Murmur are doing well and produced 6 suckers of which 4 were transplanted; those at Boddugudem were not healthy; 25 seedlings were raised in Rekapalli Range; in *Lower Gódávari*, out of 60 planted in 1902, 11 are living but not growing, and of these three are not looking healthy.

Bamboos.—Only two of the 25 put down in Ungutur reserve *Kistna* are living, but are doing very well.

Yepi and Satinwood.—In *Anantapur* were measured in their sample plots, but no appreciable difference was found in their girth.

(ii) GRASS EXPERIMENTAL PLOTS FOR TESTING THE QUALITY OF GRASS RESULTANT AFTER BURNING, GRAZING AND CUTTING.

Plots were selected last year for this purpose in all districts; but those selected in *East Kurnool* and *Anantapur* were found unsuitable and abandoned, and fresh ones selected during the year. The results of experiments in other districts vary and do not lead to definite conclusions. In some it is believed that burning improves the grass, in others the opposite; in others again there would appear to be no difference whatever in the 6 sub-plots. It is evident that,—especially considering the type of locality selected in some districts,— it requires several years yet before any definite conclusion can be arrived at.

(iii) OTHER POINTS.

(*a*) *Reclamation at Waltair.*—The area (70 acres) round the Conservator's bungalow at Waltair, *Vizagapatam*, which was terraced, has been converted from a friable waste, washed away yearly in deep gullies and ravines, into a fertile stable piece of land; about 11 acres are planted yearly; at first, owing to the friability of the soil, to the boisterous winds and to the succession of droughts (50 inches of rain short in four years), this was a matter of extreme difficulty, but now as all water that lodges on it sinks into the soil instead of passing off, carrying silt with it, the trees are beginning to grow up, and hereon the experiments at Waltair referred to under "species" are undertaken.

(*b*) *Saline soils.*—The experiments conducted in *Lower Gódávari* and *Kistna* for promoting babul growth on the saline soils have not been successful, but inspection showed precisely the defects. In *Lower Gódávari* the area was blank; it was evident that the water ran off almost at once; in *Kistna* the area was on a slope, the upper part blank, the lower part and hollows filled with babul seedlings some of which, only one and two years old, were 5′ or 6′ high. It is evident then that if the water can be retained for some time, until the roots reach moisture level, babul will succeed. Nor is fresh water necessary below, for babul was found flourishing with its roots in perfectly salt water creeks. An experiment is to be made to form a nursery on a raised platform, so that the roots of the seedlings can develop, and be extracted long to plant out, enabling the roots of such transplants to reach moisture level as soon as possible. There are thousands of acres of this bare salt soil, which it is hoped can be reclothed in this fashion; for there is a vast demand for, and but small supply of, fuel, etc., in the vicinity.

5. EXPLOITATION.

(*a*) SYSTEM OF MANAGEMENT.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration fellings.*

26. *Casuarina.*—In *Lower Gódávari*, one compartment in Bendamurlanka and one coupe in Kandikuppa plantations and in *Kistna* two coupes in Gopuvanipalem, one in Narsapur (according to the working plans) and 2 acres of Kanukollu reserve (not covered by such plans) were clear felled. *Babul.*—In *Bellary* two compartments in Babul working circles required for plantation purposes, and in *Anantapur* two coupes and certain tank-beds, were so felled.

(2) *Selection Fellings.*

27. In *Ganjám*, dead sâl standing in three compartments in Gullery and Baiballi reserves were sold to contractors and four compartments in Gogodo reserve worked departmentally under this system; fallen dead trees in five beats were removed departmentally; the indent system in force for obtaining I and II class timber was not much availed of owing to large quantities of zamindari timber at cheaper rates

being available in the markets. In *Kistna*, soft wood in 2 compartments of Kondapalli reserve was sold to a contractor. In *East Kurnool*, dead fuel and timber were extracted from old coupes and fire lines in the Railway Working Circle, Giddalore, Cumbum, Gundlabrahmeswaram and Dornal Ranges. In *West Kurnool*, dead timber was extracted from certain reserves for supply to depots and other departmental purposes. In Owk extension palmyras were selected and extracted.

(3) *Regular Thinnings.*

28. In *Lower Godávari*, two bamboo coupes in Rajahmundary Range and three in Polavaram Range were sold standing to contractors. In *Kistna*, casuarina trees in alternate lines in coupe 1 of Gopuvanipalem reserve were felled and sold *in situ*. Bamboos in four compartments of Kondapalli reserve and one compartment of Kondur reserve were leased out, and one compartment of Kondapalli was worked departmentally. In *West Kurnool*, on the Nallamalais, timber and bamboos in some reserves of Atmakur, Velgode, Nandyal and Sirvel Ranges were thinned on the principle of improvement fellings.

(4) *Improvement and Coppice Fellings.*

29. In *Lower Gódávari*, 121 acres in Coringa reserve and nine coupes in the Rajahmundry Range were coppiced with standards. In *Kistna*, one compartment and one coupe in Bandar, five coupes in Bezwada, six in Ellore Ranges were treated under coppice with standards In *West Kurnool*, fuel coupes in the Nallamalais, and on the Yerramalais in ten reserves, were worked by coppice with standards. In *Bellary*, one coupe in Sandúr, one in Hospet, one in Rayadrug, one in the unreserves of Harpanahalli and one in Kúdligi were felled under coppice with standards, in the last of which Yepi poles were extracted for testing their demand.

(5) *Unregulated Fellings.*

30. In *Upper Godávari*, the right of collecting 770,000 bamboos from reserves and unreserves was given on contract; similarly the right of extracting timber from unreserves, which were roughly divided into compartments and coupes, was leased out. In *Lower Godavari*, unregulated fellings continued in Rumpa and the unreserves. In *East Kurnool*, permits were given for platter leaves; in *West Kurnool*, for palmyras and minor produce; and in *Bellary* and *Anantapur* for unreserves only, and in the latter to villages not within easy reach of depots. Except for domestic and agricultural requirements and in the above arrangements no permits were granted for forest produce.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

31. In all districts seigniorage was collected on some gravel, earth and other minerals; the usufruct of mango, tamarind and other fruit trees was sold in auction; the collection of rela, tangedu, etc., barks, honey, wax, myrabolams, hides, horns, etc., were leased out; the chief deviations are noted below:—In *Vizagapatam*, hillmen were allowed to collect and sell to merchants and seigniorage was recovered from the purchasers. In *Kistna*, quarries were leased out to Local Funds and Municipal Departments and Railway contractors. In *Kurnool, East* and *West*, minor produce, other than tangedu bark and amaroy, was collected through Chenchus and sold in auction. In *Bellary*, minor produce was collected departmentally in Sandúr Range.

(2) *Extraction of Fodder.*

32. In *Vizagapatam*, grass from Chinnamangalapuram tope was collected departmentally for sale. In *Lower Gódávari*, pasture lands in Cocanada taluk were leased out by the Revenue Department and the sale-proceeds credited to "Forests." In *Kistna*, collection of fodder grass from closed areas was leased out. In *East Kurnool*, it was collected departmentally and used for Government bulls, and otherwise disposed of. In *Kurnool West*, removal without restriction was permitted on free head load tickets. In *Bellary*, free removal was permitted in special localities where the demand was great; and in Sandúr and Harpanahalli Ranges on condition of there being no fires in the reserves; the Military Department removed grass from reserves on payment of a royalty of Rs. 2 per ton. In

Anantapur, at first it was intended to allow free removals throughout the year; but, as the Collector found that regeneration was damaged and seedlings cut, he ordered that free removal should only be allowed when there was a shortage of grass outside the closed areas; and in October and November a charge of 3 pies per headload was made. The information called for in Board's Proceedings, Forest No. 157, dated 5th July 1910, has not been furnished by Collectors probably because, as the order was only received after the close of the Forest year, the information was not ready.

(3) *Hay-making and Silos.*

33. In *Kistna*, 328 headloads of grass was converted into hay and sold for Rs. 16. A prickly pear ensilage pit was formed but the material went bad. In *Kurnool East*, hay was collected and used for Government bulls; and in *Bellary*, 407 tons were collected and sent to Bellary and Tornagal depôts. In *Anantapur*, an overground leaf-rick on the Lonsdale method was tried but the results were unsatisfactory; next prickly pear was buried in two pits, but the ensilage was not ready for the cattle at the end of the year.

(4) *Grazing.*

34. The subjoined statement compares the revenue from grazing during the year with that of the previous year:—

	Rs.
1908–1909	2,03,343
1909–1910	2,08,177
Difference ...	+ 5,166

The difference is comparatively small.

(*b*) Agency of Exploitation.

(i) *Departmental Agency.*

35. Forms 76 and 77 show separately the different classes of produce collected, and Form 78 the stock disposed of and the balance remaining. The exploitation by departmental agency was necessary for reasons given last year. The total quantity of timber and fuel, the number of bamboos, and the value of minor produce extracted departmentally were 66·70, 35·42 and 70·44 *per cent.* of their respective total outturn through all agencies and the total value of the disposals of the year was Rs. 3,51,523 against Rs. 3,10,737 in the previous year.

Transport was conducted in the same way as the last, and previous, years.

Timber.—The quantity of timber exploited was 281,632 cubic feet against 201,927 cubic feet in the previous year, the increase occurring in all districts but *East Kurnool* where sound dead timber was scanty in the reserves; the increase in other districts was due to increased fellings proportionate to the demand.

Fuel.—The quantity of fuel removed was 4,229,585 cubic feet against 3,535,993 in the previous year; the increase was in all districts but *Vizagapatam*, where the fall was due to stoppage of felling in two Working Circles. The increase in *Ganjám*, was due to opening two new coupes and to improvement in existing depôts; in *Lower Godávari*, to removal of diseased trees from Kandikuppa plantation; in *Kistna*, to larger demand during Pushkaram festival, in *Kurnool West*, to better stock in depots; and in *Bellary*, to renewal of felling in Sandur leased forests.

Bamboos.—The number of bamboos extracted was 5,822,686 against 5,756,553 in the previous year. The increase due, to larger demand in *East Kurnool*, *West Kurnool*, *Bellary* and *Anantapur*, is nearly counterbalanced by the decrease in the remaining five districts. The decrease in *Lower Gódávari*, was due to selling coupes standing to contractors instead of felling departmentally; and in *Kistna*, to restricting extraction to crooked and dead culms.

Minor produce.—The produce collected was 399,383 maunds. Last year 149,681 maunds were incorrectly given as some districts made errors in conversion.

Disposal of the Forest Produce at the edge of the Forests.

36. In all districts in the Circle steps are being taken to introduce the system of disposal of produce at coupe edge; *Kurnool West* is the most advanced in this direction, but in *Ganjám*, *Vizagapatam*, *Lower Gódávari*, *Kistna* and *Bellary*, a further

move in this direction has been made during the year. Little detailed information on this point, and none of the action taken in transferring fuel depôts to private agencies has been given in the district reports (except what is detailed in Chapter V); but it is known that the last question is likewise receiving consideration.

(ii) *By Purchasers.*

37. The prepayment system was in force in *Lower Godávari* in the unreserves and Rumpa; and in *Bellary* throughout the district, permits in the reserves being restricted to grass and, in a few cases, to stone. In *Ganjám*, certain reserves were closed against permits for removal of major produce; for the rest, the indent system was adopted. In *Vizagapatam*, purchasers mostly collected departmentally-felled produce in the coupes, or where coupes were remote from places of consumption. In *Upper Gódávari*, small timber from unreserves and bamboos from reserves were removed on contract. In *Kistna*, two coupes of Kondapalli reserve were leased out for the removal of soft wood; and four compartments of Kondapalli and one of Kondur reserve for extraction of bamboos; removals from unreserves were on lease or permit. In *East Kurnool*, permits for the removal of minor produce alone were issued. In *Anantapur*, permits were issued for removals of palmyras, unclassified green timber, fuel, stones, earth, etc., in unreserved lands.

(iii) *Rights and Privileges.*

38. The following abstract statement shows the estimated quantity and value of produce removed under this head:—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total.
Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	Value.
787	Rs. 58	4,506	Rs. 2,895	12,293	Rs. 62	Rs. 23,570	Rs. 904	Rs. 27,489

The value of produce removed under rights and privileges is estimated at Rs. 27,489 against Rs. 46,105.

(iv) *Free Grants.*

39. The following abstract shows the quantity and value of produce removed by free grantees:—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total.
Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	Value.
77,597	Rs. 6,827	..	Rs. ..	93,367	Rs. 1,290	Rs. 263	Rs. 86	Rs. 8,466

The estimated total value of free grants was 8,466 against Rs. 17,311 in the previous year. In all districts the grants were chiefly made to indigent persons for houses and huts destroyed by fire. The decrease was chiefly due to fewer applications in the Upper Godávari.

(c) Outturn and Sources of Forest Produce.

40. The following abstract shows the total outturn of timber and other produce collected during the year under report and the previous year from reserved forests and from reserved and unreserved lands:—

Agency of exploitation.	Timber in cubic feet.		Fuel in cubic feet.		Bamboos in number.		Minor produce (including grass and grazing); gross value in rupees.	
	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.
1	2	3	4	5	6	7	8	9
By Government Agency.	201,927	281,632	3,535,993	4,229,585	5,756,553	5,822,686	4,585	13,537
By purchasers (including confiscation)	808,579	758,609	1,778,720	1,260,824	7,710,762	10,508,242	4,80,382	5,28,564
By right holders ..	787	787	154,506	154,506	12,293	12,293	39,759	24,474
By free grantees	104,409	77,597	..	..	119,095	93,367	183	349
Total ..	1,115,702	1,118,625	5,469,219	5,644,915	13,598,703	16,436,588	5,24,909	5,66,924

The variations have already been explained. The rates of grazing fees levied in the several districts are shown in Form No. 74. The number of animals licensed to grazing on permits was 1,173,333 against 1,168,935 in the previous year.

CHAPTER III.—FINANCIAL RESULTS.

41. The financial results of the Circle compared with those of the previous year and with the average of the five years preceding show a net decrease of Rs. 57,499 and Rs. 2,42,692, respectively.

The comparison of the net results of 1909–1910 with the average of the preceding five years is not accurate as the figures for 1903–1904 include those for *Guntúr* also.

—	Years.					Average per year.	1908–1909.	1909–1910.
	1903–1904.	1904–1905.	1905–1906.	1906–1907.	1907–1908.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	8,94,216	8,66,523	9,15,393	9,62,381	11,42,232	9,56,149	10,43,788	11,23,985
Expenditure A— "Conservancy and Works."	2,91,822	3,59,025	4,41,695	5,55,749	6,16,043	4,52,867	6,43,807	7,38,291
Expenditute B— "Establishments" ..	2,80,763	2,73,518	2,94,453	3,33,840	3,79,201	3,12,355	3,99,747	4,37,459
Total, A and B ..	5,72,585	6,32,543	7,36,148	8,89,589	9,95,244	7,65,222	10,43,054	11,75,750
Net results ..	+ 3,21,631	+ 2,33,980	+ 1,79,245	+ 72,792	+ 1,46,988	+ 1,90,927	+ 5,734	— * 51,765

* Excludes Rs. 13,861 being the net revenue over expenditure in *Guntúr* from sales of fuel and bamboos of Kurnool East.

The gross receipts and total expenditure were Rs. 75,197 and Rs. 1,32,696 more than those of the previous year respectively.

The net results show a deficit of Rs. 51,765. This deficit is not a fact to be regretted; in bygone years surpluses were obtained at the cost of the capital; now capital is being returned, and will be repaid in the course of a decade or two with considerable interest.

The total receipts and expenditure for the year rose by 7·17 and 12·72 per cent. respectively.

About 41 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 59 per cent. to exploitation, etc. It will be observed from Form No. 79 that the value of timber and other produce at sale depôts at the close of the year amounted to Rs. 1,67,421, which was Rs. 43,072 more than it was at the close of the previous year; this too compensates to some extent for the deficit, as it is apparent from chapter II (*b*) that the heavier stock does not betoken want of sales.

The outstanding revenue at the beginning of the year was Rs. 1,37,889 and the value of sales during the year amounted to Rs. 10,37,766. Out of the total of Rs. 11,75,655, Rs. 11,23,985 were collected, leaving an outstanding balance of Rs. 51,670 at the close of the year. The reason for the large outstanding is due almost entirely to the sale of right to collect minor produce, the sale amounts of which fall due by instalments in the current year also; for in some districts leases are always for two years.

Receipts.

(i) *By Departmental Agency.*

Timber + Rs. 2,434 due to increased departmental operations in almost all the districts.

Fuel + Rs. 29,558 due to increased sales in depôts in all the districts except in *Vizagapatam* where there was stoppage of work in Peddapalli and Venkatapuram Working Circles, in *Kurnool West* to the large but temporary private supply and in *Bellary* to the scarcity of labour owing to railway construction.

Bamboos — +Rs. 2,398. The increase occurred chiefly in *Godávari Upper* due to the sale of last year's stock.

Minor produce — +Rs. 6,400 due to better crops of tamarind and other produce in *Kurnool West.*

(ii) *By Purchasers.*

Timber — +Rs. 8,165 due to large removals from Rumpa and the unreserves in *Gódávari Lower* to large demand for palmyra trees in *Kurnool West* and *Anantapur*, and to better realization on darkhast in *Bellary.*

Fuel — +Rs. 4,932. The increase occurred chiefly in *Kistna* due to larger removals from Upputeru reserve, and in *Kurnool West* to realization of greater receipts from trees on darkhast lands.

Bamboos — +Rs. 12,710 chiefly in *Godávari Lower*, where the right of removing bamboos was sold to a contractor; there were also large removals from Rumpa.

Grazing and fodder grass. — +Rs. 4,834 chiefly in *Gódávari Upper* due to the grazing revenue collected in the Nugur range.

Other produce — +Rs. 19,122. The increase occurred chiefly in *Gódávari Lower* due to large removals of minor produce from Rumpa, and in *Bellary* to the increased prices realised for Tangedu bark leases and greater receipts from tree-owner's fees.

(iii) *Miscellaneous* (*including confiscated drift and waif wood*).

Revenue — —Rs. 15,352. In *Gódávari Lower* the decrease under drift-wood was due to want of good competition; and in *Ganjám*, *Kurnool East* and *West* and *Bellary* to less realization of compounding fees.

EXPENDITURE.

A.—Conservancy and works.

The total expenditure exceeded that of previous year by Rs. 94,984 and was due mainly to the following causes:—(1) to the increased departmental operations in almost all the districts; (2) increased cultural operations in *Kistna*, *Kurnool East* and *West*, and *Bellary*; (3) purchase of junkers in *Ganjám*; and (4) heavy programme under roads and buildings chiefly in the Nallamalais.

B.—Establishment.

The increased cost of Rs. 37,712 was due mainly to the posting of superior officers of higher grades, to the entertainment of the full sanctioned establishment, and to the increased touring.

CHAPTER IV.—ADMINISTRATION.

42. *New district Forest office charges.*—Final orders have not yet been passed on the question of dividing *Kurnool* district into three.

New ranges.—The Nugur range was added to *Godávari Upper* during the year.

43. *Conduct of executive establishment.*—The conduct of the executive establishment is reported to be on the whole satisfactory in all the districts except *Gódávari Upper.*

Good conduct.—The work of Rangers George Venugopal, A. Bastian, N. L. Narasimham, and Thambu Nayudu is specially commended.

Bad conduct.—One Ranger was permanently reduced and the work of five was condemned. One Deputy Ranger was removed and the work of another condemned.

44. *Protective staff.*—The conduct of this branch still continues unsatisfactory on the whole.

Prosecutions.—In *Kurnool East* two depôt gumastahs were prosecuted for fraud, and in *Anantapur* one Watcher was sentenced to three months' rigorous imprisonment for extortion. In *Bellary* a Forester was sentenced under section 409, Indian Penal Code, to a fine of Rs. 500 and imprisonment till the rising of the Court; one Deputy Ranger, one Forester and one Tanadar are still evading warrants of arrest.

Removals and minor punishments.—Thirty Forest Guards were removed, 24 were suspended and 7 reduced; whilst among other minor subordinates there were 60 removals, 21 suspensions and 2 reductions.

Foresters.—On the whole they are said to have worked well; removals 5, suspensions 6 and reductions 2.

45. *Ministerial establishment.*—The conduct of the ministerial establishment was on the whole satisfactory. Two District office clerks were reduced, two Range clerks dismissed and one suspended, and three Range peons dismissed.

46. *Health of establishment and casualties.*—The health of the establishment was bad in the Northern Circars and Kurnool Nallamalais, but good elsewhere. One Ranger, one Deputy Ranger, two Foresters, 8 Forest guards, one Watcher, two Tanadars, and one Range peon died of fever and one Range peon of small-pox; one Forester was invalidated by malaria. Several subordinates had to take leave on account of ill-health.

47. *Relations between Revenue and Forest officials.*—The relations between the Revenue and the Forest officials were cordial in every district. In *Vizagapatam*, the ryots of Nathavaram demanded free fuel from unreserved lands for commercial purposes, but told that such free removal is limited to requirements for *bonâ fide* domestic purposes only. In *Kurnool East*, complaints about the difficulty of obtaining thorns for fencing and leaf manure, from the ryots of Cumbum and Markapur taluks, are under enquiry.

48. *Service books.*—These are maintained and verified in all the districts, except for 48 Guards in *Bellary*.

49. *Tours of the Forest Member.*—The Hon'ble Messrs. C. J. Weir and W. O. Horne visited *Anantapur* district, and the latter *Kurnool West* division.

50. *Conservator's inspections.*—The Conservator visited all the districts and inspected all the District Forest offices.

51. *Touring of District Forest officers.*—All the District Forest officers spent more than six months in camp except (owing to Mr. Rigold's illness) in *Godávari Lower*.

52. *Inspection of Range offices.*—All Range offices were inspected except two in *Gódávari Lower*, two in *Kurnool West*, and one in *Anantapur*.

53. *Audit of accounts of District Forest offices.*—All the District Forest offices except *Ganjám* and *Kistna* were inspected by auditors from the Accountant-General's office. The results were reported to be satisfactory except Bellary, which is improving.

54. *Imperial Forest College, Dehra Dun.*—Five Government students were deputed for the Ranger's course. Seven returned during the year with the Higher Standard certificates. Rangers Crothers and Chengappa, deputed for the third year's course, completed their training by 30th June 1910.

55. *Vernacular Training School for Guards.*—This school was opened in Sandur on 1st February 1910 with Rangers Messrs. Stracey and Rahimatulla Sahib as Instructors. Out of 29 deputed for training, 19 passed in the first, and eight in the second, class, one from *Bellary* was sent down, and one from *Kurnool* East died. The Instructors worked well.

56. *Work and service of superior officers.*—The following Collectors have commented on the work of their District Forest officers :—

Collector, *Ganjám.*—Mr. Bennett discharged his duties with energy and ability, and Mr. Whitehead showed commendable zeal. It is entirely to the tact and judgment shown by Messrs. Bennett and McLaughlin in Pondakhol that such a promising start has been made there. Collector, *Vizagapatam.*—Mr. Murray worked with his usual keenness. Collector, *Gódávari.*—Mr. Rigold worked satisfactorily and his work and conduct had been uniformly good. Collector, *Anantapur.*—The work of Messrs. Daly and Woutersz was satisfactory. Mr. Dawson is an officer of somewhat peculiar views though very zealous, and was not thoroughly in sympathy with the forest policy adopted in the district. The Collector of *Anantapur* also comments on the frequency of changes amongst his District Forest officers (there have been five in three-and-a-half years), and wishes that it were possible for an officer to stop for

several years before leaving, in the interests of Forest Conservancy; certainly the continual changes—although they may be necessary—have brought about a considerable want of discipline in the Executive and Protective establishment, and the same applies to *Lower Gódávari* where changes, if anything, have been still more numerous.

The Conservator endorses these opinions. As regards the remaining District Forest Officers, the work of Messrs. Wood, Tireman and Barlow-Poole was excellent; of the first the Conservator is proud to note that the Forest Member has recorded that he "has nothing but praise" for his work amongst the Chenchus, and work generally in the Terai; he was helped by Extra Assistant Conservator Mr. Tapp who works hard, but should make his subordinates carry out protection, etc., more effectually; Mr. Tireman has brought about excellent protection in the district of *Bellary* that needs it so badly; he has been ably backed up by his Assistants Messrs. Minchin and Venkatramana Aiyar who have given him whole hearted service; and Mr. Barlow-Poole has laboured single handed most strenuously, especially during the exceptionally severe hot weather in the Nallamalais, in a charge that in its present undivided state is one of great difficulty. Messrs. Seager and Rego have both done good work in their divisions; but the latter wants to exert more control over his subordinates so that they carry out works when his back is turned.

CHAPTER V.—GENERAL.

(*a*) Rules under the Forest Act.

57. (i) *Timber transit rules.*—The rules worked well in *Ganjám*, *Vizagapatam*, *Gódávari Upper* and *Lower*, *Kurnool East* and *West*. There are none in *Bellary* and *Anantapur*. The draft rules for *Kistna* have not yet been approved by the Board.

(ii) *Rules under section* 26 *of the Forest Act.*—The privileges allowed by these rules were generally availed of by the people; and there were no complaints nor abuses, except in *Ganjám*, *Vizagapatam* and *Godávari Upper*. In *Ganjám*, there were several complaints that subordinates prevent ryots removing what they require for *bonâ fide* domestic purposes. This was to a great extent due to the ryots having already removed practically all the unreserved and unclassified trees from many of the unreserves. In *Vizagapatam* and *Godávari Upper*, the concession granted to the hill-men to clear land for Podu cultivation was abused, and steps have been taken to prevent this

58. (iii) *Rules framed for the collection and disposal of drift wood.*—These rules are defective, and they require to be legalized.

(*b*) Supply of forest produce to meet the wants of people.

59. *Development of the coupe and depôt system.*—The permit system was abolished except for grazing and minor items in all districts; and sale depôts and coupes were opened in convenient centres for supply of timber, fuel and bamboos. The sales at depôts have, on the whole, been poor; and, consequently, several depôts were abolished. In *Ganjám*, the demand for fuel and bamboos greatly decreased after the cyclone. In *Vizagapatam*, the permit system was in force where coupes could not be worked in respect of bamboos only. In *Gódávari Upper*, the inhabitants of Bhadráchellam are allowed the privilege of free removal of timber from unreserves. Permits were also issued for produce required from reserves for local consumption. In *Gódávari Lower*, an attempt was made to sell fuel felled in the Rajahmundry Range to a contractor at a fixed rate. The fuel cut in the Bendamurlanka plantation was sold in public auction. The fuel and timber cut in the Peddapúr Range was sold to a contractor. The right of extracting bamboos from some coupes of Rajahmundry, Polavaram and Peddapúr Ranges was auctioned to contractors. In *Kistna*, the sale depôts at Bezwada and Ellore were abolished; and the sale of fuel in these towns was made over to a contractor under certain rigorous conditions. In *Kurnool East*, spokes, felloes and fuel were sold in depôts; but the ryots want green timber, and attempts will be made to meet the want in part. In *Kurnool West*, the demand for agricultural implements was greater than the supply, which defect will shortly be remedied as far as possible. Except fuel in Kurnool town and bamboos at Gazulapalli, the sales of fuel and bamboos were limited to the coupes. The Nandyal depôt was closed and given over to a contractor whose work was not satisfactory. Proposals

are before the Board to give over the Kurnool depôt to the boating contractor of the Nallamalai fuel who will purchase fuel for it in the coupes in the Nallamalais. In *Bellary*, arrangements to sell fuel in coupes were made, and consequently certain sale depôts were abolished. In *Anantapur*, the wants of the people are generally met by the concessions allowed under section 26 of the Forest Act and the issue of permits to cut unclassified timber and palmyra trees in unreserved lands of villages situated far from the existing sale depôts. Depôts at Madakasira and Kalyandrug are not working satisfactorily, and they will be abolished.

60. *Measures adopted to encourage the growth of manure leaf yielding plants.*—No operations were conducted in *Ganjám*, *Vizagapatam*, *Gódávari Upper* and *Lower* and *Kurnool East*, there being no demand for leaf manure in these districts. In *Anantapur*, no experiments were conducted, as there is sufficient supply from unreserves and patta lands. In *Kistna*, Kanuga, and in *Bellary*, Kanuga, Tangedu and Bandedu were sown in the course of cultural operations. In *Kurnool West*, seeds of Kanuga were sown along the Pálár river and in one acre of land on the bank of the Hindri river in Yerramalais; but the results were not encouraging. The concession allowed by Government in the matter of granting lands free of assessment for growing manure leaf yielding species was not taken advantage of in any of the districts. Accurate information regarding the yield and quantity required per acre was not furnished, there being no special areas under cultivation of leaf manure. It is, however, reported that in *Kistna* the yield and the quantity required per acre are about 4 and 3 cart-loads, respectively; in *Kurnool East* and *Bellary* the quantity required per acre is considered to be 20, and 5 to 12 cart-loads. In Nandyal and Velgode Ranges 5 to 8 cart-loads, and in the Yerramalai Ranges 2 cart-loads are required.

61. *Hill tribes.*—In *Ganjám*, the Khonds in Pondakhol were employed on demarcation work. When they were paid in money for their labour some difficulty was experienced in getting them to work regularly; but when they were paid in kind they worked regularly and in large numbers. *Podu*ing inside the reserve has been almost entirely put a stop to. The Khonds of the Mojjagodo, Kukuluba and Buguda Ranges consented to look after fire protection, fire patrolling and general protection of the forests from thefts, in return for which they are granted small concessions of material to rebuild their houses, ploughs, and minor produce. This system is likely to have good results in the matter of general protection of the reserves. In *Vizagapatam*, care was taken to avoid giving the hill men cause for complaint against the working of the forest laws, so long as they did not abuse the privileges given to them. In *Gódávari Upper*, the Koyas and Reddis work at fire tracing, line-clearing, collection of minor produce, and felling small timber and bamboos. New works of clearing guide and interior lines, collection of seeds and minor produce were started on account of failure of crops and they carried them out very well. The system of payment by results in fire protection has worked satisfactorily. In *Gódávari Lower*, the hill tribes were allowed to enjoy certain concessions in regard to *Podu* cultivation, free grazing and free removal of certain species of forest produce from Rumpa and the unreserves; they in return give assistance in preventing and putting out fires in the forests. In *Kurnool East*, the Chenchus were employed on plantations and in return they were fed and clothed. They are on the whole quiet. The Chenchus are still disinclined to do any but plantation work except under great pressure, and have no wish to help to put out fires. In *Kurnool West*, the Chenchus were employed on the plantation works and the collection of minor produce. The concession of the special collection of Ippa flowers and distilling arrack therefrom were continued; but this was not allowed in the East division as the forests were burnt before the flower season. The scheme must be tried for one or two years more as the Chenchus are still under the impression that it has been brought into force to frustrate their own private collections. They are now more civilised. This is particularly noticeable at Nagaluti where the Chenchus are making bricks and constructing a masonry water channel. The number of Chenchus at the several plantations is increasing. The forest member has recorded after personal inspection his cordial approval of the steps taken to civilize them, and of the measure of success already obtained.

62. *Cultivation in reserved forests.*—No cultivation was allowed in the reserved forests except in *Ganjám*, *Gódávari Lower*, *Kistna* and *Bellary* which make no mention of the subject.

63. *Mining and prospecting.*—In *Ganjám*, *Gódávari Lower*, *Kistna* and *Kurnool East*, no reference was made to the subject in the reports. In *Vizagapatam*, no licenses were granted during the year. In *Godávari Upper*, one application for prospecting the Pedakonda graphite area was received, and the matter is still under correspondence. In *Kurnool West*, licenses for prospecting diamonds were granted to Messrs. Beardsel & Co., Madras, and Mr. A. Ghose of Tarikere. In *Bellary*, a mining lease for manganese over 1,132·80 acres of land in the Tumbaraguddi reserve was granted in favour of the South India Manganese Company. The prospecting license over 288 acres in Alagilavada reserve granted to Mr. Dunn of Bangalore was renewed for one year. In *Anantapur*, no prospecting licenses were granted during the year; but portions of the areas for which prospecting licenses were granted last year, are proposed to be transferred to Nandidrug Company. The total area under prospecting is 9,769 acres. A mining lease for 1 square mile was granted to the North Anantapur Gold Fields, Limited, 500 tons of quartz were crushed yielding 256 ounces of gold.

64. *Realization of revenue from the usufruct of toddy-yielding trees on Government waste and poramboke lands.*— No mention of this subject is made in the reports of *Ganjám*, *Kistna* and *Anantapur*. In *Gódávari Upper* there was no revenue under this head; and in *Vizagapatam*, it was small. The revenue realized in *Gódávari Lower*, *Kurnool East*, *Kurnool West* and *Bellary* was respectively Rs. 5,433, Rs. 3,435, Rs. 21,936, and Rs. 24,131 against Rs. 4,858, Rs. 4,223, Rs. 22,614 and Rs. 17,648 in the previous year.

(*c*) Live and Dead Stock.

65. *Live stock*— (*a*) *Elephants.*—The elephants in *Vizagapatam*, *Upper Gódávari* and *Kurnool West* were in good condition. The elephant in *Ganjám* is still reported to be ill. The elephant which was transferred from *South Malabar* to *Gódávari Upper* has not yet arrived.

(*b*) *Bullocks.*—In *Kurnool East* there were 22 at the beginning of the year, of which two died and another two were condemned and auctioned. In *Bellary* of 65 bullocks, two were shot, two were killed by panthers, one died and 14 were auctioned. The dispensary at Mariammanahalli for the treatment of sick bullocks was maintained The feed and keep of bullocks cost Rs 4,556 against Rs. 5,772 during the previous year.

66. *Inventory of valuable stock.*—The stock registers were maintained and verified.

67. *Rain-gauges.*—Rain-gauges were set up in all the districts and the readings were properly recorded (*vide* Appendix I). The proposal to establish gauges in the bed of the Gundlakamma river was given up in accordance with the Board's orders.

(*d*) Suits.

68. *Suits.*—In *Gódávari Lower*, the second appeals in the High Court in connection with the Coringa Extension suit were decided against Government. Application was made to the High Court by Government for permission to prefer an appeal to the Privy Council. Orders on the application have not yet been passed. In *Anantapur*, the owner of the fields acquired for the Ramagiri reserve addition in Dharmavaram taluk refused to accept the compensation settled by the Divisional officer, Penukonda, and referred the matter to the District Judge. The case is proceeding.

Conservator's Office,
Northern Circle,
Waltair, 15*th September* 1910.

A. W. LUSHINGTON,
Conservator of Forests,
Northern Circle.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY.

CENTRAL CIRCLE, 1909-1910.

Chapter.	Subject.	Paras.
I	Constitution of State Forests—	
	1. Alteration in area	1 & 2
	2. Forest settlement	3
	3. Demarcation	4
	4. Forest surveys	5
II	Management of State Forests—	
	1. Regulation of management—	
	(*a*) Preparation and control of regular working-plans ...	6—8
	(*b*) Preliminary working-plans	9
	(*c*) Annual plan of operations	10
	2. Communications and Buildings—	
	(*a*) Roads and bridges	11
	(*b*) Buildings	
	(*c*) Miscellaneous works	
	3. Protection of Forests—	
	(*a*) General protection	12—16
	(*b*) Protection from fire	17 & 18
	(*c*) Protection from cattle	19 & 20
	(*d*) Protection against injuries from natural causes	21
	4. Sylviculture—	
	(*a*) Natural reproduction	22
	(*b*) Artificial reproduction	23
	(*c*) Operations for improvement of the growing stock ...	24 & 25
	(*d*) Experiments	26
	5. Exploitation—	
	(*a*) System of management—	
	(i) Major Forest produce	27—30
	(ii) Minor Forest produce	31—34
	(*b*) Agency of exploitation—	
	(i) Departmental agency	35
	(ii) By purchasers	36 & 37
	(iii) Rights and privileges	38
	(iv) Free grants	39
	(*c*) Outturn and sources of Forest produce	40
III	Financial results	41
IV	Administration	42—54
V	General	55—70
	Appendices A to J and Annual Forms Nos. 65 to 83, 85, 86, 72-A and 72-B of the old Code.	

FOREST ADMINISTRATION REPORT OF THE CENTRAL CIRCLE

FOR THE FOREST YEAR ENDING 30TH JUNE 1910.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

1. The total area of the Circle fell from 8,048 square miles to 8,028 square miles. This is due chiefly to correct computation of areas. One square mile of reserved land in *Chingleput* district was finally constituted reserved forest. Small areas were disafforested in *Nellore*, *Chingleput*, *North* and *South Arcot*.

2. Under *Reserved lands* the reduction was by transfer to reserved forests. The question of further reservation of blocks in the Vaiyampatti range of the *Trichinopoly* district and of salt swamps and blocks along the coast for forming casuarina plantations in *Tanjore*, is under investigation.

2. Forest Settlement.

3. This is practically complete : a few small extensions in *North Arcot*, *Trichinopoly*, *Tanjore* and *Chingleput*, and two blocks of 6 square miles in *South Salem* were pending settlement by Revenue Divisional Officers. The submission of final notification for the Hudaidurgam block in *North Salem* division is still pending final disposal on second appeal to the High Court. The case has been remanded to the District Court for judgment on two findings.

3. Demarcation.

4. One hundred and twenty-five miles of artificial boundary line were demarcated at a cost of Rs. 955 against 89 miles in the previous year at a cost of Rs. 1,037. The average cost per mile was Rs. 7–10–3 against Rs. 11–10–5. Eleven thousand six hundred and fifty-three miles were recleared without extra cost by Forest subordinates against 10,452 miles in the previous year.

4. Forest Surveys.

5. The Survey of India Party did not work in this Circle.

Departmentally in *North Salem*, two surveyors were engaged for roads, verification of reserves and enclosures, coupes and a proposed reserved forest : in *South Salem*, one man made maps of two old reserved forests : in *Trichinopoly* one man prepared maps on the 8″ scale of about 6 square miles of reserves and padugais.

Two hundred and ninty-one square miles remained to be surveyed and final maps had still to be prepared for 256 square miles of reserved forests.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working Plans.*

6. *Preparation.*—Working plans for 847 square miles were sanctioned during the year, which comprise all those mentioned in last year's report as awaiting sanction of the Board, besides others for Vellore East range, *North Arcot*, Vadakuttu working circle, *South Arcot*, forests of Namakkal-Kollimalais, *South Salem*, and Musiri range, *Trichinopoly*. Guntúr Babul working plan was revised during the year and approved by the Board in its Proceedings Forest No. 92, dated 12th April 1910. The revised working-plan of the Coast casuarina plantations, *Nellore*, was finally received from the District Forest officer at the close of the year and submitted to the Board for sanction. The provisional working plans of Rapur range, *Nellore*, and Javadi Hills, *South Arcot*, sanctioned for a year's trial were still continued, the former pending revision of working plan and the latter for further trial. The grazing policy on the settlement of which the revision of the former working plan depended having been defined, the working circles are taken up one after another and revised carefully with reference to growth and grazing requirements of the surrounding villages. The working plan for the Dharmapuri range (North Salem) referred to in last year's

report, was mislaid by the Collector in January and has not yet been received. A working plan submitted for the reserves near Vallam in Tanjore taluk was returned for revision. Plans for areas in *North Cuddapah* and *North Salem* and for 16 square miles in *South Arcot*, noted in last year's report are still under preparation and 149 square miles in *South Arcot* were taken up during the year. In *North Salem*, the area concerned is the Hosur range. Work was done on this by Mr. Dawson, but his transfer put a stop to it and now it is stopped again by the transfer of Mr. Clear.

7. *Control.*—The prescriptions of the working plans were generally adhered to. Important deviations are noted below:—

In *North Cuddapah*, certain fuel series remained slightly in arrear through dearth of labour due to cholera and by reason of transport being interfered with by floods. Bamboo Working Circle coupes Nos. II and III on the Nallamalais were not worked for want of demand. In *East Cuddapah*, two coupes in one range were worked in advance to meet demand and some coupes of the year in another range were not worked for want of demand. In *Nellore*, three compartments each in Rapur and Sriharikota ranges remained one year in arrear as the yield proved greater than expected and the demand less, and all coupes in three working plans failed to sell. In the Casuarina plantations of the Coast range compartments were kept fallow for two years on account of fungus. In *South Arcot*, some progress was made in working out the arrear fuel coupes of the Tiruvannámalai working plan and two sandalwood coupes of the Javadi working plan. Only one coupe out of four small Timber Working Circles of Tiruvannámalai plan was worked for want of demand and no timber coupes of the Javadi working plan were exploited as the previous working was a failure financially. Doubtless it was still more a failure sylviculturally. In *North Salem*, the provisions of the Tiruppattúr Working Plan had not been rigidly adhered to from the beginning; consequently there was deficit in the felling of some Working Circles, due chiefly to the fluctuating demand for fuel and charcoal, supply of 1,000 tons to the Southern Mahratta Railway however cleared some of the arrear coupes, but of ten timber coupes six were not touched owing to lack of communications. In other ranges some of the arrear coppice coupes were felled. *In South Salem*, out of 8 timber and 38 fuel coupes a small area of one coupe in the former and only 13 of the latter, 2 completely and 11 partially, were exploited. This is attributed to want of demand, to the cost of transport to places where there is demand being prohibitive, to the means of transport and to the necessary staff required for carrying out the work being inadequate. On the other hand, 49 acres of 1 arrear timber coupe and 941 acres of 13 fuel coupes were felled during the year. Special attention has been given in dealing with the plan of operations for current year (revised) and that for 1911–12, to the question of what is to be done about the non-fulfilment of the provisions of the working plans. In *Tanjore*, Nadur coupe VIII, which had been postponed for 1910–11, had to be worked.

8. *Estimate of area for which working plans have still to be prepared, etc.*—Working plans for 2,596 square miles have still to be prepared excluding 149 square miles taken in hand during the year. *Guntúr*, *East and South Cuddapah* contribute chiefly towards this area, though it might be said that preparation is proceeding satisfactorily in *East Cuddapah* for the last two years. Considering that no plans exist for any of the areas in *South Cuddapah* and that the areas for which plans exist in Guntúr is only 41 square miles out of the total area of 814 square miles of the district, it is highly desirable that the District Forest Officers should pay more attention towards this important matter in the current year. In the absence of a special Working Plans-officer and considering the high pressure in all districts, changes among District Forest Officers and double charges, the general progress may be considered satisfactory.

(*b*) *Preliminary Working Plans.*

9. In *North Cuddapah*, a scheme of located fellings was carried out in eleven timber and eight fuel coupes, preparatory to collecting data on which to base future plans. In *South Cuddapah*, there was difficulty as before in selling coupes for sugarcane boiling, but 14 were worked departmentally and 837 cart-loads supplied. A general note on the preparation of working plans was drawn up by Mr. Arbuthnot after he left the district and the Range officers have been ordered to collect statistics on the lines indicated therein. In *Nellore*, beyond collecting further information on the plans referred to in the previous years' reports, no progress was made in drawing up plans for want of time. In *South Salem*, a simple scheme for leasing bamboo blocks with a rotation of three years was made for the reserves on the Chitteries not under

working plans. In *Tanjore*, the preparation of the preliminary plan for Talanayar and Kodiakadu Reserved Forests has been still deferred, until the results of the coppicing of *Mimusops hexandra* are further seen. In *Guntúr*, general schemes for the working of forest areas in Vinukonda, Palnad, Guntúr and Sattenapalle ranges drawn up by the District Forest Officer are being followed.

(c) Annual Plan of Operations.

10. Besides those noted under the heading "control" the following are the important deviations under this head :—In *North Cuddapah*, certain timber and fuel coupes in Ráyachóti range were not worked completely, owing to want of effort on the part of the Range officer and demand not very brisk; the completion of a bungalow, the construction of a rest-house, the clearing of taluk boundaries, sowing and planting operations had to be postponed for various reasons, such as want of funds and staff employed on more remunerative and revenue-producing works, etc. In *East Cuddapah*, some timber coupes were not worked for want of demand; some buildings and repairs to bridlepaths were not undertaken for want of funds. In *South Cuddapah*, a coupe in Ankalammakonda reserve was opened to meet the demand of the Piler town. In *Nellore*, the construction of quarters for subordinates in four places and of a rest-house at Gonupalli was postponed for want of funds. In *Chingleput*, the arrear fuel coupes were worked and no new coupes were touched. In *North Arcot*, the construction of one road had to be postponed to provide funds for the construction of another and of a rest-house. In *South Arcot*, coupe 9 of the Annamalai fuel working circle was felled in advance, owing to urgent demand in the Tiruvannámalai sale depot. Bamboos were leased out instead of being worked departmentally, owing to satisfactory prices realised in sale. In *North Salem*, instead of two timber compartments proposed for felling in Tiruppattúr range, three others were worked, the felling in the former having been completed in the previous year. The fuel coupes proposed to be leased out had to be worked departmentally, as the contract system adopted in the previous year did not work satisfactorily. The construction of certain rest-houses and two depotkeepers' sale rooms, etc., were not undertaken in order to provide funds for some urgent road, building and other works. In *South Salem*, the construction of five rest-houses and five lines and huts for subordinates, a cart-track, a bridlepath and a well were not undertaken in order to provide funds for two important rest-houses at Kapputtu and Kanjamalai and owing to constant changes in the executive staff. But even these were not taken up during the year on account of the delay in acquiring sites for them. Government have since refused to sanction the acquisition of the site for the former, as it was considered that there was no necessity for that building. In *Trichinopoly*, the departmental felling in some of the coupes of the Vaiyampatti range could not be completed owing to scarcity of labour on account of the adjoining zamin forests being worked by private contractors and in other ranges for want of local demand for fuel. In *Guntúr*, one fuel coupe was leased out to a European contractor for cutting timber and fuel.

2. Communications and Buildings.

11. The outlay on roads and bridges was Rs. 18,282 in 1908–1909 and Rupees 22,549 in 1909–1910, on buildings was Rs. 31,140 in 1908–1909 and Rs. 41,736 in 1909–1910, and on other works was Rs. 1,696 in 1908–1909 and Rs. 5,346 in 1909–1910.

There is noticeable increase under all heads: under "Roads and Bridges" mainly in *East Cuddapah* and *North Salem*; under "Buildings" in the three divisions of *Cuddapah*, in *Chingleput*, *South Arcot* and (mainly) *North Salem*; under "Other works" chiefly in *South Arcot* and *North Salem*.

Important works of a permanent nature were: (*a*) *Roads and Bridges*, a road on the Nallamalais continued in *North Cuddapah;* 2 miles 40 chains of Patrakad Ghat road in *North Arcot* making up 4 miles; completion of the Anaibiddahalla-Anchetti road, Andiappanur-Kambugudi Ghat road and road from Palacode to Kesaraguli in *North Salem;* portion of a bridlepath up the Kollimalais and metalling of a portion of Vanavasi road in *South Salem*; (*b*) *Buildings*, completion of rest-houses at Bynapalle, Gundlur and Kothapalle and commencement of one at Bullapabhavi in *North Cuddapah;* a Range office at Badvel in *East Cuddapah*; a rest-house at Penchupad and completion of out-house and stables to Kurli rest-house in *South Cuddapah;* of out-houses to Somasila and Datchur rest-houses in *Nellore*; construction of rest-houses at Avadi and Kadapperi (incomplete), extension of Kambakkam hill bungalow (incomplete) in *Chingleput;* five guards' and watchers' lines, a depot-keeper's building and a sandalwood godown (completed) and two other lines and a

stable (in course of construction) in *South Arcot;* completion of a Range office building at Tiruppattúr and subordinates' quarters at Lokur, purchase of Rev. M. Anderson's bungalow at Danishpet in *North Salem;* completion of a rest-house at Pudupatti, construction of a Range office at Papireddipatti, out-houses to Panamadal rest-house in *South Salem;* Point Calimere bungalow (nearly completed) in *Tanjore;* completion of rest-house at Venkatayapalayam in *Guntúr*; and (*c*) *Miscellaneous Works*, none.

Tramways.—In the Coast Range, *Nellore*, 9,038 tons of fuel were trammed or 19,063⅛ ton-miles were run against 11,983 tons or 19,833 ton-miles in the previous year and at Sriharikota 7,538⅜ tons or 18,439½ ton-miles against 6,109⅛ tons or 18,327⅜ ton-miles. The report does not give any *remarks* on the cost of working.

3. Protection of Forests.

(*a*) *General Protection.*

12. The forest offences registered during the year were—

Class.	Injury to forests by fire.		Unauthorized felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.
1. Cases taken into Court.	5	19	1,761	1,536	847	724	73	89	2,686	2,368
2. Cases compounded ..	2	7	7,343	7,972	4,072	4,327	215	217	11,632	12,523
3. Cases undetected ..	163	413	302	176	354	103	8	11	827	703
Total ..	170	429	9,406	9,684	5,273	5,154	296	317	15,145	15,594

Information regarding cases in unreserved lands not furnished by Collectors of Nellore, North and South Salem, Tanjore and Guntúr.

The total is higher by 449 and 1,507 compared with previous year and previous three years' average respectively. The increase has occurred under all heads except under "Grazing". The rise under "Injuries to forests by fire" mainly in *East Cuddapah*, *South Arcot* and *South Salem*, and noticeably in *North Arcot*, was due to continued drought and failure of the north-east monsoon. Other causes mentioned for rise and fall are better protection and greater vigilance and want of work on account of the unfavourable season. What the real state of affairs is with regard to protection and to detection (or rather record or registration of all offences committed), it is impossible to say. Districts probably vary considerably, and certainly the number of cases registered in them does, and in some has reached a maximum and declined again. Doubtless, on the whole, protection has improved and the number of offences, or amount of offence committed, decreased, but whether the proportion registered has made good progress, has attained its limit and maintained it or retrograded, or still wavers at a low level, it is impossible to say. In *South Salem*, *North* and *East Cuddapah*, however, I think, the number of cases registered is far below what it ought to be.

13. Cases brought to trial—

	Convictions.	Acquittals.	Percentage of failures.
1908–1909	2,406	306	11·28
1909–1910	1,935	257	11·72

There was noticeable increase in percentage of acquittals in *East Cuddapah* and *North Salem.*

14. Cases compounded—

	Number of cases.	Amount recovered.
		RS.
1908–1909	10,330	1,08,898
1909–1910	11,293 *	97,881

* Excluding 49 Unreserved Land cases for which the amount is not furnished by Collector, North and South Cuddapah divisions.

Both figures contribute to a reduced average per case. This is generally attributed to the cases being more petty.

15. The punishments inflicted by the Magistrates were on the whole satisfactory. Some of the more important cases worth special mention are noted below. In *Chingleput*, in a case of assault against the Range officer Tiruvallúr while proceeding

to detect a case of illicit grazing, twenty-three men were charged and seven were found guilty and sentenced to undergo rigorous imprisonment of one year each and steps taken to bind over the others to keep the peace. Appeal to the Sessions Judge was dismissed and the sentences confirmed. In the case referred to last year of forcible rescue of cattle, the convictions were set aside, the Sessions Judge passing some severe strictures on the conduct of the forest subordinates: the Deputy Ranger has been reduced. In *North Salem*, and three accused, charged under section 414 of the Indian Penal Code and Timber Transit Rules, were found guilty and sentenced to undergo rigorous imprisonment for one year each.

16. Rewards to informers were, as usual, sparingly granted. In *North Arcot*, Rs. 5 to informers. In *South Arcot*, Rs. 20 to a Deputy Ranger in a sandalwood case; Rs. 10 to a guard and Rs. 5 in other cases. In *Chingleput*, non-departmental rewards of Rs. 25 to a forest guard and Rs. 5 to a watcher, were given by the District Magistrate for furnishing information and help to the Police in arresting certain depredators who were moving in the forests.

(*b*) *Protection from Fire.*

17. In *Cuddapah, North and South*, the special system introduced in 1905–1906 of burning a large area of the forest in strips of varying width in order to secure better protection of the remainder and with a view to providing fresh grass was continued. The results are reported to have been satisfactory. In *North Cuddapah*, portions of nine reserves were divided into blocks or compartments by means of strips, which were burnt to 200 to 300 feet wide.

The experiments ordered in G.O., No. 466, Revenue, dated 27th February 1907, communicated in Board's Proceedings, Forest No. 44, dated 9th March 1907, to burn certain areas under departmental supervision to meet the requirements of graziers were conducted in the following districts:—

In the three divisions of *North*, *East* and *South Cuddapah*, an area of 7,740 acres, 38,000 acres and 4,800 acres, respectively, was burnt with satisfactory results. The burning of grassy strips ordered in December 1909 in certain reserves of Kadiri range, *South Cuddapah*, was commenced late in the season owing to change of Range officers and consequently had to be stopped. In *Nellore*, an area of 200 acres in the Veligondas, Rapur range, was burnt and the grass in this portion is thicker and coarser than in the adjoining block. In other places though selected, no burning was done for want of grass on account of failure of rains.

Protection from fire was attempted over 3,767 square miles out of 8,028 square miles comprised in the circle at a cost of Rs. 19,497 against 3,559 square miles at a cost of Rs. 16,336 in the previous year. The proportion of failures increased from ·8 per cent. in the previous year to 6·3. The proportion of failures in specially protected areas also increased from 1·3 per cent. in the previous year to 10·7. The cost per square mile successfully protected was Rs. 5–8–5 against Rs. 4–10–1 in the previous year.

18. Statement of fires according to their origin is given in appendix I.

The total number of fires and the area burnt are respectively treble and quadruple of the number and area of the previous year, due chiefly to excessive drought and dry season. This increase occurred under all heads except under the head "carelessness or accident by workmen employed".

(*c*) *Protection from Cattle.*

19. Form No. 73 gives details of the areas open and closed to grazing and Form No. 74, the number and kind of animals grazed free or on payment in the reserved forests and lands. The areas closed to grazing for part of the year and entirely closed for the whole year were respectively ·05 per cent. or 4 square miles and 8·87 per cent. or 712 square miles against 3 and 679 square miles in the previous year. The increase of 1 square mile in the areas closed for part of the year was in *South Cuddapah*, while that in the areas closed for the whole year, 63 square miles was in *East Cuddapah*.

The percentages of forests open to grazing and browsing to the whole area of the circle are 93·41 and 4·87 per cent. respectively. Goats were entirely excluded from reserves in *South Arcot*, *South Salem*, *Trichinopoly* and *Tanjore* and in other districts small areas of certain reserves were thrown open to browsing.

20. An analysis of the cattle impounded is given in appendix J.

There was increase in most districts, with decrease in *South Arcot*, *North and South Salem* and *Trichinopoly*. It is attributed generally to better work and supervision and is mainly contributed to by goats, though in *South Arcot* their numbers fell off considerably.

(*d*) *Protection against Injuries from Natural Causes.*

21. In *North Cuddapah*, many *Anogeissus latifolia* and some *Red Sanders* in the Palakondas are said to have been attacked by a beetle and some trees died, but the beetle has not been identified. Special attention is promised to this during this year. In *Nellore*, there was little trace of fungus disease in the casuarina plantations. The usual precautionary measures were taken, but the inter-planting of *Pithecolobium dulce* and *Acacia auriculiformis* were considered unnecessary and the Conservator ordered it to be discontinued in future except in water-logged places. *Dalbergia Sissoo* planted on the padugai forests in *Trichinopoly* were attacked by the parasite *Loranthus longifolia* and were cleared by the forest subordinates, as also *casuarina*, *cashew* and *Wormia-pentagyna* trees in *Tanjore*. In *Guntúr*, about 200 casuarina plants were washed down by the erosion of the sea in the Surylanka bungalow plantation. On account of severe hot weather and the consequent sinking of sub-soil water level, about 12,000 casuarina plants died in various plantations of the Bápatla range.

4. SYLVICULTURE.

(*a*) *Natural Reproduction.*

22. The year was not a favourable one for natural reproduction, as owing to the entire failure of north-east monsoon rains, there was a long continued drought almost everywhere and a severe hot weather. In *North Cuddapah*, reproduction from seed of teak, *Chloroxylon Swietenia*, *Hardwickia binata* and *Pterocarpus santalinus* was good in all the protected areas and in the coupes closed to grazing in the Palakondas and Nallamalais. Reproduction of bamboos also was good in the latter hills. In all the felled coupes reproduction from coppice was good. Reproduction from seed was very poor in all the areas open to grazing. In *East Cuddapah*, seeds of *Red Sanders* and *Anogeissus latifolia* appeared to withstand fire better than other species. Coppice growth was not so vigorous and healthy as usual. In *South Cuddapah*, coppice was fair but reproduction from seed almost wholly absent except in a few favoured localities inaccessible to cattle. In the plains under thorny bushes, seedlings of *Diospyros melanoxylon* were found besides the species already well-known for this. In *Nellore*, *Eugenia jambolana* coppice grew luxuriantly; 6 feet within eight months. Reproduction from seed owing to continuous drought failed even in an area closed to grazing. In *Chingleput*, seedlings of *Melia indica*, *Anogeissus latifolia*, *Mimusops hexandra*, *Albizzia amara* and other species have come up well under the parent trees in the areas closed to grazing and in sheltered localities. In *North Arcot*, reproduction from seed in nearly all the areas closed to grazing was good and that of previous years on the slopes of the Chamala reserve splendid and the seedlings are vigorous. In *South Arcot*, reproduction by seed of *Chloroxylon Swietenia* in coupes from which the undergrowth was not cleared is very marked. Sandalwood seedlings on the Tenmalai plateau (Javadis) and in Tagarai reserved forest (Kalrayan slopes) are in good condition. In *North Salem*, natural reproduction by seed was fair wherever there has been reasonable protection from grazing. In Tiruppattúr range, reproduction from coppice shoots was fair, but it is observed that when a coupe is worked, the whole area is immediately covered with thorny acacias and in some places also prickly-pear. This is a drawback in coupes on the Javadis which are worked intensively, but this undergrowth is of advantage and acts as preventive from injuries of men and cattle. In the Aiyur reserve, regeneration of *Albizzia odoratissima* by root-suckers was noticed and those of *Pongamia glabra*, *Eugenia Jambolana* which seek moist places was fair. Teak was found scattered in many places, but its regeneration from seed was backward owing to attacks of insect pests. The regeneration of *Sandal* and *Hardwickia binata* trees was on the whole poor. In *South Salem*, reproduction by seed is by no means good except on top of some of the hill ranges, where there is more moisture and more shade than down below, where there is little chance for seedlings to grow on account of overgrazing. In *Trichinopoly*, Root-suckers from *Dalbergia Sisso* in the reserves of Udayarpalayam range are in good condition. Reproduction from seeds of all species in all reserved forests was fairly good as almost all of them contain evergreen species which keep out fires. Reproduction from seeds of babul and Inga dulcis (*Pithecolobium dulce*) was excellent. In *Tanjore*, reproduction both from seed and coppice was satisfactory except in the case of *Mimusops hexandra* in coupe VIII of Kodiakadu reserve in which only 50 stools of 1 to 3 feet in girth coppiced, while stools above 3 feet in girth failed to coppice at all. This however does not involve the conclusion that the species cannot be regularly coppiced at a proper age. Absence of seedlings is due to a *mámúl* removal of *humus* by the villagers for manuring tobacco fields. In *Guntúr*, reproduction of *Avicennia* by seed was good while that by coppice shoots was not satisfactory. In felled coupes

closed to grazing reproduction was good both by seed and coppice. In places where there is shade, reproduction from seed of *Hardwickia binata* was good. In the felled areas of the Guntúr Babul working circle reproduction by seed was poor, though coppicing was fair.

(*b*) *Artificial Reproduction.*

23. *Regular Plantations.*—In the three divisions of *Cuddapah*, there are no regular plantations. In *North Cuddapah*, 300 plants of *Zizyphus*, *Albizzia Lebbek* and *Pongamia glabra* were raised in a nursery in Rámeswaram reserve, but only 150 survived and are in healthy condition. In *East Cuddapah*, the graft mango plants planted in Kodur tope three years ago have established themselves. In *South Cuddapah*, in a tope in Kadiri range, tamarind and *Melia indica* seedlings were put out in baskets, some in pits and some on mounds. But as a comparative experiment, it was of little value, as the pits were watered for six months and the mounds left to nature, with the natural result that 66 per cent. of the former are surviving and growing vigorously, while only 9 per cent. of the latter are alive and not doing well. Considering the season the survival of even 9 per cent. of unwatered plants may be not altogether unsatisfactory. In *Nellore*, no replanting of felled compartments was carried out in the casuarina plantations during the year, as they were left fallow for two years as a cure for fungus disease, as usual; but some of the smaller compartments were planted with *Pithecolobium dulce* and casuarina. Kollurpad plantation was extended during the year by 10 acres bringing the total area planted to 120 acres. In *Chingleput*, *Melia indica*, *Tamarindus indica*, *Eugenia Jambolana*, *Albizzia Lebbek*, *Cashew*, etc., seedlings were planted in compartments 1 and 7 of the Meyyur plantation and watered. 50 per cent. withstood the bad season which was worse there than almost anywhere and the result may be considered good. In *North Arcot*, 7 acres in Palmanér reserve were planted with Red Sanders seedlings and 123 acres in the different plantations near Vellore were planted with casuarina and other seedlings with satisfactory results. In *North Salem*, 23,000 seedlings of Australian Wattle, Cyprus, Juniper and Silver Oak were planted during the year in compartments 1, 2 and 3 of Sanyasimalai plantation on the Shevaroys at about 4,000 feet and they are thriving well, also a thousand cuttings of *Erythrina indica* and lithosperma. In *South Arcot*, *Tanjore* and *Guntúr* the usual replanting of casuarina was done.

Cultural operations.—In *North Cuddapah*, the usual sowings in closed coupes were made but seedlings died from drought in January. In *East Cuddapah*, of 320 seedlings of Red Sanders reported to be thriving well last year a large percentage died out. Seedlings of manure leaf species thriving at the beginning of the year withered, so also 200 seedlings of Red Sanders put out in blanks. In *South Cuddapah*, in the open areas of felled coupes Tamarind, Red Sanders, *Melia*, Teak, *Pongamia*, *Terminalia tomentosa* and *Arjuna* were sown on mounds. Tamarind, *Pongamia* and *Melia* germinated and 350 seedlings are alive and the rest died owing to drought. In *Nellore*, the nursery at Sriharikota was continued and fresh nurseries were opened for growing timber species in Dugarazpatam and Tamminapatam plantations and in the Udayagiri Durgam Hill. In 60 acres forming blanks of compartment No. 10 of Sriharikota, natural forest on land on the coast, casuarina plants mixed with *Acacia auriculiformis* and *Catalpa speciosa* were planted; the former has attained 3 to 5½ feet and the latter 2 to 3½ feet and 1 to 2 feet respectively within a year. In various forests seeds of different species dibbled in, sown broadcast or after ploughing did not germinate for want of rain. In *Chingleput*, operations were conducted on an extensive scale as in the previous year in all the felled coupes and in poorly stocked areas. An extent of 1,206 acres was sown with 3,209 measures of several timber species and *Cassia auriculata*, (1) by ploughing poorly stocked areas in furrows, (2) by dibbling in the seeds in holes and under bushes and (3) by transplanting seedlings raised in nurseries near the coupes. The operations were very successful in both the ranges at the beginning, but on account of the failure of rains, 60 per cent. of the seedlings in Chingleput range and 40 per cent. in Tiruvallúr range, succumbed. The survivors have been struggling hard and have put forth fresh leaves in the showers of July 1910. Three thousand five hundred palm seeds (presumably palmyra) were sown in the forests. In *North Arcot* experiments made in irrigating casuarina plants in the plantations instead of watering by hand show that the former is better both economically and sylviculturally, although the plants are watered once in five days only instead of once in three days. In *South Arcot*, *Acacia Sundra*, *Albizzia amara*, *Butea frondosa*, *Chloroxylon Swietenia* and *Melia indica* seeds were sown in felled coupes and also cashew *Anacardium occidentale*, but only a very small percentage is reported to survive. Cuttings were put in blank areas. In *North Salem*, *Eucalyptus rostrata*, *E. resinifera* and brown pine were sown in the Sanyasimalai

plantations and about 500 of these seedlings are thriving well. *Lucern* seed was sown in the compounds of two bungalows and in the Sanyasimalai nursery. In *Trichinopoly*, five compartments aggregating an area of 226 acres of Padugai reserves along the Coleroon left bank in the Udaiyarpálaiyam range were taken up for reclaiming with fast growing species, viz., *Inga dulcis*, *Acacia arabica*, sissoo, teak, mahogany, casuarina, cashew, etc. Forty-two thousand four hundred and fifty-three plants were raised at a cost of Rs. 3,252. Two thousand three hundred and fifty teak seedlings were also planted in three reserves Cuttings of *Portia* (*Thespesia populnea*), *Odina Wodier*, Ichi (*Ficus retusa*) and *Banian* planted along the fences around the plantation partly failed. In the bare slopes of the Pachamalais in the Musiri range, a large quantity of seeds of *Dodonæa viscosa*, *Albizzia amara*, etc., collected by subordinates free of cost were sown. The seeds have germinated and are thriving. In *Tanjore*, 10 acres of land in Nadur, Vettangudi and Kollangarai reserves and 2 acres in Viralipatti were sown with cashew seeds at a cost of Rs. 65. There were casualties owing to the unusual drought, but the existing seedlings are reported to be thriving well. In *Guntúr*, babul and *Melia indica* seeds were dibbled in in the felled areas of the Lam reserve and the seedlings are promising.

(c) Operations for improvement of growing stock.

24. Creepers and climbers affecting the standard trees in all the felled coupes were cut and removed by subordinates in *North* and *East Cuddapah*. Improvement fellings were undertaken in timber coupes of *North Cuddapah*, by felling unsound, hollow and deformed trees. Thinnings of bamboos were carried out in the bamboo coupes. Coppice fellings in the fuel coupes and selection fellings in the timber coupes in *East Cuddapah*, tended to improve the growing stock and dead trees, were removed in about 20 square miles in the forests of Palakondas and Lankamalais. In *South Cuddapah*, proper coppicing of stools was attended to in all the coupes. In *Chingleput*, weeding, thinning and creeper cutting were done wherever necessary and felled areas were fenced to prevent the ingress of cattle and thus improve pasture. Removal of prickly-pear in Guindy Park commenced last year was continued at a cost of Rs. 168. In *South Arcot*, thinnings of bamboos in two tope reserves and of casuarina in the Akshikadu reserve of Tindivanam range and in certain casuarina plantations of Cuddalore range were carried out. In *Guntúr*, felled areas were fenced.

25. *Arboricultural development.*—In *North Cuddapah*, young and deformed teak round a bungalow were cut back. Four hundred *Melia indica* seedlings were transplanted. In *South Cuddapah*, sandalwood seeds sown in July under bushes and on mounds have not been successful owing to drought. Sandal seedlings have been raised in nurseries. In *Nellore*, in the Durgam Hill reserve nursery, Teak, *Artocarpus integrifolia*, *S. Mahogani*, etc., were planted; only the mahogany is thriving. In the Durgam Hill bungalow compound, some fruit trees were planted, but only lime is thriving. In *Chingleput*, a large number of seedlings of Tamarind and *Melia indica* were planted in all the felled coupes and in Meyyur plantation. In *South Arcot*, Red Sanders seeds were collected for sowing in prepared pits in worked coupes. In other districts, nothing special has been reported except what has been given under cultural operations.

(d) Experiments.

26. *Mahogany* (*Swietenia Mahogani*).—In *East Cuddapah*, of the 23 plants, 9 died during the year. In *South Cuddapah*, 285 plants were raised in nursery beds and basketted and transplanted under shade. They were not watered, but given top light by opening out the cover. The plants did not survive probably owing to unfavourable season. In future the seed will be sown in the baskets. There is little object in using baskets otherwise. In *Nellore*, seeds came up very well and plants are in good condition. In *North Arcot*, the plants are thriving. In *South Arcot*, the existing plants in Tiruvannámalai are thriving. Out of 56 and 174 plants in Cuddalore and Kallakurichi ranges, only 41 and 136 are surviving, the casualties being attributed to damage done by white ants, of which I am somewhat sceptical. Plants of 1906 in casuarina on the shore are doing well. From 2 lbs. of seed sown only 8 germinated. In *Trichinopoly*, the 16 trees in Alambadi padugai and 22 in Annagarampatti reserve are thriving well and there are 700 seedlings in four padugai reserves and they are also doing well.

Swietenia macrophylla.—In *East Cuddapah*, of the 50 plants, 8 died during the year. In *Chingleput*, 90 per cent. of the plants put down in open portions of the Guindy Park succumbed in the hot weather and a few were damaged by cattle. In *South Arcot*, the existing plants in Tiruvannámalai are thriving. Out of 126 plants in Kallakurichi range, only 98 are surviving, the rest having, it is said, been

destroyed by white ants. The plants in Talankoda reserve reported last year have all died owing to the unfavourable season. Four lbs. of seed sown in the nursery of the reserve have also failed. In *Tanjore*, of the 14 trees in Vettangudi nursery and compartment No. VII, two have died.

Acacia auriculiformis.—In *Nellore*, the seeds sown in five nurseries have germinated and are growing well. In *Chingleput*, plants were raised in two nurseries and basketted. In *South Arcot*, out of 660 plants that existed in the Cuddalore range, only 338 survive. One lb. of seed sown in Talankoda nursery germinated, but died. These are all in sand on the coast.

Acacia Senegal seeds were sown in Kothachenu nursery, *Nellore*, but not a single seed germinated.

Burma rattan.—In *Nellore*, seeds of three species were sown, but, as last year, did not germinate.

Catalpa speciosa.—In *Nellore*, the plants of last year have put forth new leaves and are in fair condition.

Eucalyptus.—Blue gum (*Eucalyptus globulus*) seed was tried in coast sand but naturally it was a thorough failure. In *North Arcot*, the trees in two of the plantations are thriving. Seeds were sown in Whiteside's garden. They germinated, but were killed by excessive rain. A supply has been obtained from the Nilgiris and is now being sown. In *North Salem*, seeds of *Eucalyptus rostrata*, *E. resinifera* and *E. marginata* were sown in Sanyasimalai plantation (4,000 feet) and seedlings are reported to be thriving well.

Grasses.—Several species of Australian grasses were tried in *Nellore* and *North Salem* and three species in *Chingleput*. Only Rhodes grass germinated and came up well, though the growth is not so good in *Nellore* as that of last year owing to drought; in *Chingleput* and *North Salem*, it seeded and the seeds have been collected and kept for sowing in the next season.

Date (*Phoenix dactylifera*).—In *North Arcot*, no improvement has been noticed in the trees planted and no more have been put down. In *Tanjore*, the 126 trees are surviving.

Jacquarandus.—In *North Arcot*, the existing plants in Whiteside's garden are doing well.

Agave Ixtle.—In *North Arcot*, no casualties are reported and the existing plants are presumably all doing well.

Sissoo.—In *Nellore*, seedlings did well. In *Trichinopoly*, the plants are thriving, but as in previous year, they were attacked by the parasite *Loranthus longifolia*. In *Tanjore*, the 45 trees continue to thrive.

Divi Divi (*Cæsalpinia coriaria*).—In *North Arcot*, the yield of pods from certain trees is a little more than 8½ candies against 5 candies in the previous year.

5. Exploitation.

(*a*) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

27. The usual fellings in casuarina plantations and babul (*Acacia arabica*) tank beds were made.

(2) *Selection Fellings.*

28. Fellings of this nature were carried out in two bamboo coupes (11,895 acres) and 11 timber coupes (3,650 acres) and in removing dead and dying palmyra trees in a plantation in *North Cuddapah*; over an extent of 12,865 acres in *East Cuddapah*; in one bamboo coupe in *South Cuddapah*; in *North Arcot*, for collection of 2,230 cubic feet of sandalwood, 2,971 cubic feet of red sanders, 3,234 cubic feet of timber fit for agricultural implements and 3,745 cubic feet of miscellaneous timber and for extraction of bamboos; in *South Arcot*, in one compartment of casuarina and in bamboo coupes; in *North Salem*, in four compartments of Tirupattúr range, for the extraction of sandalwood, and for the supply of agricultural and domestic implements to the several depots and Remount depot; in *South Salem*, in felling sandalwood trees; in *Trichinopoly*, in extracting some 100,000 cubic feet of babul fuel and 95,441 bamboos; in *Tanjore*, in felling 4,800 cubic feet of babul; in *Guntúr*, in cutting babul.

(3) *and* (4) *Improvement and Coppice Fellings.*

29. Nineteen fuel and charcoal coupes in *North Cuddapah* and 20 coupes in *East Cuddapah*, were worked as coppice with standards, while babul trees in two tank beds in *North Cuddapah* and 19 fuel coupes in *South Cuddapah* were coppiced, and two timber

coupes and one bamboo coupe in *South Cuddapah* were treated under improvement fellings. In *Nellore*, coppice with standards fellings were carried out in a number of working circles. In *Chingleput*, about 1,748 acres were felled similarly. In *North Arcot*, improvement fellings were undertaken in Balampet tope, in two compartments in Chandragiri range and in one coupe in Vellore west range; and eight coupes (1,258 acres) by contractors and 47 coupes (3,582 acres) departmentally were coppiced. In *South Arcot*, 64 coupes were worked under this system, 27 (1,191 acres) departmentally and 37 (3,103 acres) on contract. In *North* and *South Salem*, all fuel coupes were worked under the coppice with standard system, bamboo coupes in the former and timber coupes in the latter under improvement fellings; coppice with standards was adopted in 51 fuel coupes in *Trichinopoly* and four coupes in *Tanjore*, 38 and 4 of which were worked departmentally and improvement fellings in two bamboo coupes of the former district. In *Guntúr*, eight coupes were treated as coppice with standards and four coupes were coppiced.

5. *Unregulated Fellings.*

30. In *North Cuddapah*, permits were issued for the working of bamboos on the Palakondas and for charcoal in areas not under working plans and for timber in this and *South Cuddapah* divisions in localities where the very small demand made it impossible to systematise fellings. In *East Cuddapah*, permits for the removal of bamboos were continued to be issued, as no contractors were available, but the exploitation was done on a rotation of two years. In *Nellore*, the issue of chits for extraction of fuel from reserved forests was considerably less owing to increased departmental operations in different centres. In *Chingleput*, *North* and *South Arcot*, *North* and *South Salem* it was confined to unreserved areas, except for bamboo blocks in *South Salem*. In *Trichinopoly* and *Guntúr* permits for the removal of major produce had been stopped, except in a few cases in *Guntúr* where the Range officers issued permits for the removal of trees, etc., for building purposes.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

31. Minor forest produce was generally leased out to contractors or collected departmentally. In a few districts, permits were issued for certain classes of produce such as manure leaves, stones, gravel, which require little supervision as to mode of collection. The manner of working in each district is given below :—

In the three divisions of *Cuddapah*, it was leased out in all ranges and stones and road materials in *North and South Cuddapah* were removed by the Public Works and Local Fund Departments, seigniorage due from contractors being collected before removal. Seventy-five lbs. of gum were collected departmentally in *South Cuddapah* and supplied to the Superintendent of Stationery. In *Nellore*, the minor forest produce in Sriharikota and Udayagiri ranges was collected departmentally except *Cassia auriculata* bark, the right to collect which and all kinds of minor produce in other ranges was leased out to contractors. In *Chingleput*, it was leased out to contractors, but manure and palm leaves, vellal grass, stone materials except quarries leased out in auction, date ribs, etc., were removed on permits. In *North Arcot*, the right to collect produce except *Divi Divi* pods in Vellore East range was leased out in almost all forests. About 8 candies of *Divi Divi* pods were collected and disposed of during the year. Permits were issued for grazing and manure leaves. In *South Arcot*, 302 lbs. of gum were collected departmentally and supplied to the Superintendent of Stationery. Permits were issued for the removal of stones, gravel, limestone and manure leaf. All other produce was leased out. In *North and South Salem*, all minor produce was leased out as usual. In *Trichinopoly* and *Tanjore*, all produce was disposed of by leasing out to contractors except dead leaves in Kodiakadu reserve for which permits were issued departmentally. In *Guntúr*, it was leased out; but in respect of Tangedu (*Acacia auriculata*) bark, to give it three years to develop, the district was divided into three blocks and one only leased out.

(2) *Extraction of Fodder.*

32. In the three divisions of *Cuddapah*, free removal of fodder and thatching grass was permitted as usual. In *Nellore*, permits were issued for the removal of grass from reserved forest and Rs. 7 was realised therefrom. In *North Arcot*, the concession to remove grass in head loads was continued. In *North Salem*, there was no free removal of grass, but the grass farm at Sanamavu was leased out for one year for the Director of Farms, Bangalore, at Rs. 2 per acre. In *South Salem*, owing to

the scarcity of fodder, head-load permits were issued for the Harur specially protected block for the removal of grass. In *Guntúr*, monthly and fortnightly permits were issued in three ranges to cut and remove grass, but the concession was not largely availed of. Full particulars regarding free removal of grass required by the Board's Proceedings, Forest No. 157, dated 5th July 1910, have not been recorded in districts, as the proceedings were issued after the close of the year, except in *East Cuddapah*, where it is reported that 10,000 tons were removed and that concessions were abused to a large extent by setting fire to forests to obtain fresh grass and by hacking saplings.

(3) *Hay-making.*

33. The operations were not conducted in some districts for want of demand or want of grass on account of drought and even in some districts where they were conducted, it was at a loss. In *North Cuddapah*, 48 tons 896 lbs. of hay were collected at a cost of Rs. 221, of which 30 tons were sold in auction for Rs. 88 and the balance remains for want of demand. Here, ryots seem to understand the advantage of making hay as they store away dried grass just as they do straw. In *East Cuddapah*, 73 tons of hay were collected and transported to Madras at a cost of Rs. 504 and 773, respectively, of which 52 tons sold to the Station Supply office, Madras Brigade, through Madras depot, realised Rs. 1,691. There was no local demand for hay. In *Chingleput*, 44 tons of hay were made from coarse gubba grass cut and stacked at Pondavakkam, but this being of an inferior kind, cannot find a sale either locally or at Madras. However a little more than 3 tons was selected and sent to Madras, where another selection was made and a portion of it was sold with difficulty for Rs. 59. In *North Arcot*, 13 tons, 1,420 lbs. were collected departmentally at a cost of Rs. 46. The Military department did not take the lease during the year in the Ammanur, etc., reserves. In *North Salem*, 3 tons, 560 lbs. of hay were collected at a cost of Rs. 12 in Salem West range, and 6 tons, 726 lbs. at a cost of Rs. 67 in Hosur range. Four tons, 1,260 lbs. of last year was sold in auction for Rs. 7 and that collected in Hosur range sold to Remount depot for Rs. 126. In *Trichinopoly*, $2\frac{1}{4}$ tons of hay were collected departmentally at a cost of Rs. 41 and 1 ton, 68 quarters sold for Rs. 33. In *Guntúr*, operations were conducted in Ballapalli and Kondavid reserves under the supervision of a Hay Superintendent and a Hay Supervisor respectively and 546 tons were cut and stored during the year against 500 and 559 tons respectively in the two previous years. The cost of collection and baling excluding establishment charges amounted to Rs. 2,293 besides Rs. 676 for the purchase of wire. Seven hundred tons were sold during the year for Rs. 7,300 and 189 tons written off the accounts as dryage and wastage.

(4) *Grazing.*

34. The revenue derived from "grazing and grass removals" was Rs. 4,24,831, a falling off of Rs. 22,758 or about 5 per cent. The decrease was due generally to drought and the consequent want of grass in reserved forests and non-advent of foreign cattle, to the mortality among cattle and goats in a few districts, to the exclusion of goats from reserves subsequent on the introduction of the new grazing scheme in *Nellore* and to extension of the kancha system which does not admit sheep, to free grazing in a large number of "conservancy" blocks in *Chingleput*, and to a larger area closed in *Guntúr*. It was heavy in *Cuddapah* and *Chingleput*, lighter in *Nellore*, *South Arcot* and *North Salem* and light in *Guntúr*. In *Salem South* and *Trichinopoly* the revenue was about the same as in the previous year. In *North Arcot* there was an appreciable increase the reason for which is not apparent.

With regard to carrying out the orders of Government that the number of cattle should be limited to the grazing capacity of reserves, the matter is being given careful attention and statistics are being collected. In dealing with the plan of operations, Collectors have been requested to instruct District Forest Officers to make preliminary reports at all events, on how limitation is to be affected, at an early date.

(*b*) Agency of Exploitation.

(i) *Departmental Agency.*

35. Departmental agency has again been the chief agency for working fuel and timber, although attempts are being made in all districts to find contractors. The total quantity of timber and fuel, the number of bamboos, and the value of the minor produce extracted departmentally were respectively 61, 2·3 and 2·2 per cent. of their total outturn through all agencies. The total value of the disposals of the year was Rs. 6,86,701 against Rs. 5,27,446 in the previous year.

Transport was chiefly effected by country carts, coolies, drag bullocks and buffaloes, railway and boats.

Timber+124,259 *cubic feet.*—Due chiefly to extensive departmental operations undertaken in *Guntúr* with a view to introduce more systematic working. The increase or decrease in other districts almost counterbalanced each other, and the variations do not call for remarks.

Fuel+1,532,701 *cubic feet.*—Due chiefly in *North* and *South Arcot* and *North Cuddapah* to extended departmental operations and to larger outturn realised in coupes worked.

Bamboos+164,186—Increase occurred mainly in *North Salem* and also to a certain extent in *North* and *South Cuddapah* on account of departmental working for supply to sale depots.

Minor Produce,+13,692 *maunds.*—Due to larger collections of hay in *East Cuddapah* and of soap-nuts and tamarind in *Nellore.*

(ii) *By Purchasers.*

36. For wood from reserved forests, the permit system has been replaced everywhere, almost entirely by located fellings in coupes worked for the most part departmentally, and in some cases by contractors. The total value of sales was Rs. 3,91,039 for major produce including bamboos and Rs. 7,95,761 from minor produce, which gave an increase of Rs. 483 and Rs. 57,734, respectively, over that of the previous year. The increase under minor produce occurred chiefly in *North* and *South Cuddapah* owing to better prices realised in sales and in *North Arcot* to larger sale of produce in unreserved lands and increased revenue under grazing. The sales of confiscated produce are recorded in Form No. 72-B and show an increase of Rs. 1,170.

Form of Grazing Permit.

37. Very little is said by Collectors about this. Reference is made in some cases ambiguously to the "prepayment system". Such opinions as are expressed are in favour of the original fixed value form in preference to the new quasi-fixed value form, and with these I agree.

(iii) *Rights and Privileges.*

38. These are allowed for grazing and the value of produce removed under this head is estimated at Rs. 741 against Rs. 1,193 in the previous year.

(iv) *Free Grants.*

39. The estimated value was Rs. 7,055 against Rs. 5,823 in the previous year. The grants were made chiefly to poor ryots for rebuilding houses and huts destroyed by fire. In *South Salem*, free grant of timber was made for the repair of certain Hindu temples, the legitimacy of this grant is doubtful. A large grant to the value of Rs. 2,313 in *Guntúr* was due to the formation of Adivi village in Bapatla taluk by certain emigrants from Ongole taluk.

(*c*) Outturn and Sources of Forest Produce.

40. The following abstract gives the total outturn of timber and other produce collected by different agencies during 1908–1909 and 1909–1910 from reserved forests and from reserved and unreserved lands:—

Form Nos. 76, 77, and 72 (*b*).

Agency of exploitation.	Timber in cubic feet including sandalwood.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce (including grass and grazing) gross value in Rupees.	
	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.
By Government Agency ..	103,965	228,224	5,204,892	6,737,593	256,944	421,130	17,590	18,519
By purchasers (including confiscations).	1,199,476	1,283,487	3,668,135	3,124,425	14,017,885	17,440,390	7,38,199	7,96,263
By right holders . ..	..	..	..	..	..	..	1,193	741
By free grants	61,894	58,349	466	667	18,134	27,970	402	901
Total ..	1,365,335	1,570,060	8,873,493	9,862,685	14,292,963	17,889,490	7,57,384	8,16,424

The results show an increase under all heads. The variations have already been explained. The rates for grazing fees levied in several districts are shown in Form No. 72. The number of animals licensed to grazing on payment was 2,272,577 against 2,338,815.

CHAPTER III.—FINANCIAL RESULTS.

41. The net revenue compared with that of the previous year and with the average of the five years preceding shews an increase of Rs. 57,953 and Rs. 1,31,837, respectively :—

	Years.					Average per year.	1908-1909.	1909-1910.
	1903-1904.	1904-1905.	1905-1906.	1906-1907.	1907-1908.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	* 11,20,986	11,81,907	12,50,544	15,01,092	16,84,538	13,47,813	17,21,897	19,18,620
Expenditure—								
A. Conservancy and Works.	2,82,672	3,37,204	3,79,561	4,81,918	5,43,096	4,04,890	6,09,790	7,33,010
B. Establishments ..	3,15,105	3,25,080	3,27,998	3,45,946	3,66,200	3,36,066	4,31,366	4,46,916
Total, A and B ..	5,97,777	6,62,284	7,07,559	8,27,864	9,09,296	7,40,956	10,41,156	11,79,926
Net surplus ..	+ 5,23,209	+ 5,19,623	+ 5,42,985	+ 6,73,228	+ 7,75,242	6,06,857	+ 6,80,741	+ 7,38,694

* As separate figures are not available for Guntúr for 1903-1904, the district not having been formed then, the actuals of 1904-1905 have been added for 1903-1904 for purposes of comparison.

The gross receipts were Rs. 1,96,723 more than that of the previous year, and the total expenditure was greater by Rs. 1,38,770. The receipts and expenditure are the highest on record and have increased regularly for six years, including expenditure under A and B separately. The surplus is greater by more than half a lakh than that of 1908–1909, though a third of a lakh less than in 1907–1908, the rise being steady for six years except in that year. The total receipts for the year rose by 11·42 per cent. and the total charges by 13·32 per cent. About 33 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 67 per cent. to exploitation, etc. Departmental working yielded a net profit of 34 per cent. against a percentage of 28 in the previous year.

It will be seen from Form 79 that the value of timber and other produce at sale depots at the close of the year amounted to Rs. 1,54,887 or Rs. 18,207 less than it was at the close of the previous year.

The outstanding revenue at the close of the year was Rs. 1,40,674 which was less than the last year's closing balance by Rs. 68,944. The total value of sales during the year exceeded that of the previous year by Rs. 1,22,370. Out of Rupees 1,40,674 the amount actually due to the department at the end of the year deducting the lease amounts falling due after the close of the year, *viz.*, Rs. 1,04,942, was only Rs. 35,732.

The important variations under the several budget heads of revenue and expenditure during the two years 1908–1909 and 1909–1910 are explained below :—

Receipts.

(i) *By Departmental Agency.*

Timber + Rs. 8,708.—Due to the disposal of previous year's stock, to increased demand for small timbers and opening of additional timber depots in *North Cuddapah* and to increased departmental operations and to better prices realised for redwood roots and stumps in *North Arcot.*

Fuel + Rs. 98,688.—Due to extensive departmental operations carried on in most of the districts and to opening of additional depots in some of them.

Bamboos + Rs. 2,388.—Due chiefly to working coupes departmentally in Dharmapuri and Hosur ranges, *North Salem*, for supply to sale depots.

Sandalwood + Rs. 48,920.—Due to the sale during the year of the previous year's collections in *North Arcot*, and to the working of coupes on the Tenmalais as per Javadi provisional working-plan in *South Arcot.*

Minor produce + Rs. 551.—Due principally in *Guntúr* and *East Cuddapah*, to increased sales of hay, but this was partly counterbalanced by decrease in *Nellore* from non-sale of minor produce on account of its collection not having been completed.

(ii) *By Purchasers.*

Timber + Rs. 10,125.—Due mainly to increased revenue realised from the sale of trees on darkhast lands in *Chingleput* and *North Arcot* and to the crediting of revenue realised from this source to this head instead of to II (*b*) as in previous years in *Guntúr* and *Trichinopoly*.

Fuel — *Rs.* 32,191.—Due chiefly in *Nellore* and *North Arcot* to fewer coupes sold to contractors; in *South Arcot* and *North Salem* to increased departmental operations; in *Trichinopoly* and *Guntúr* to the transfer of revenue from darkhast lands to sub-head II (*a*) and in *Tanjore* to non-sale of coupes to contractors and to less revenue realised from sale of deadwood and withered trees in several taluks.

Bamboos + *Rs.* 10,440.—Due mainly in *North Salem* to sale of blocks in Tiruppattúr and Salem West ranges and to advance collection of an instalment falling due in the current year, and in *East Cuddapah* to better demand and to advance collection of an instalment; but this was partly counterbalanced by decrease in *South Arcot* owing to undue competition in the sales of previous year.

Grazing and fodder grass — *Rs.* 22,758.—Has occurred in all the districts except *North Arcot* and *Tanjore*, and is generally attributed to unfavourable season in *North and East Cuddapah* and *North Salem*, to advances taken from permit-issuing officers in 1908-1909 credited to this head in *South Arcot*, to fall in the number of goats admitted under the new grazing scheme and want of fodder owing to drought in *Nellore*. The increase in *North Arcot* is due to more goats being licensed and compensation fees realised.

Other produce + Rs. 76,059.—Due chiefly to better and abnormal prices *realised* for minor produce, especially tanning barks, amroy and aloes, more manure leaves being taken on permit in all the districts except *North Salem*, *Tanjore* and *Guntúr*.

(iii) *Miscellaneous* (*including confiscated drift and waifwood*).

Revenue — Rs. 4,207.—Due to less receipts for compounding chiefly in *North Cuddapah*, *Nellore*, *South Arcot*, *South Salem*, *Guntúr* and *Tanjore*. On the other hand, there was increase in *North Salem* from forfeiture of contractors' deposits and from large compounding fees in this, *North Arcot* and *Trichinopoly* districts.

EXPENDITURE.

A.—Conservancy and Works.

The expenditure under this head exceeded that of the previous year by Rs. 1,23,220 and this was due chiefly (1) to extensive departmental fuel operations; (2) to feed and keep of more draught bullocks in *South Arcot*, *North Salem* and *Trichinopoly* and purchase of more animals in *North Salem*; (3) to construction and improvement of roads in *North Salem*; (4) to construction of rest-houses and houses for subordinates in *East* and *South Cuddapah*, *Chingleput*, *South Arcot* and *North Salem* and of compound walls to range offices and sinking wells; (5) to the acquisition of a depot site in *Guntúr*; (6) to extensive planting operations in *Guntúr*, *Nellore* and *Chingleput*; (7) to increased expenditure on fire protection chiefly in *North* and *East Cuddapah* and *North Salem*; (8) to payment of grain compensation, to repair of water-sources and to the employment of watchers for Guindy Park and to the works carried out therein.

B.—Establishments.

The increased expenditure of Rs. 15,550 was due to the appointment and deputation of a stipendiary student for Provincial Service, and of substitutes for those deputed to the Imperial Forest College, Dehra Dun, to the reorganization of subordinate establishments, to the appointment of accountants in the Circle and District Forest offices for the whole year instead of only for a part as in the previous year and to the increments drawn by office establishments.

CHAPTER IV.—ADMINISTRATION.

42. The Circle was in charge of Mr. C. E. Brasier until 23rd April 1910 and in charge of Mr. T. P. Peake for the rest of the year.

New Ranges.—No new ranges were formed for want of competent rangers to hold charge, although there is pressing necessity for the formation of some of them already sanctioned.

43. *Conduct of the executive establishment.*—The conduct of the executive staff was unsatisfactory in *North* and *East Cuddapah*, *Nellore*, *Trichinopoly*, *North* and *South Salem*, and more or less satisfactory in others, while that of the protective staff continued to be unsatisfactory as in previous years. The conduct of the establishment is referred to below in detail:—

Removed from service.—Three Rangers (two in *North Arcot* and one in *Chingleput*) were removed and the services of another in *East Cuddapah* were dispensed with. Four Probationary or Acting Deputy Rangers (two in *East Cuddapah*, one in *Chingleput* and in *North Salem*) and eight Foresters, most of them acting.

Resignations.—Three Deputy Rangers (*North Salem*) and two Foresters (in *East Cuddapah* and *Trichinopoly*).

Reductions.—One Ranger in *North Cuddapah* was reduced from 4th to 5th grade and another in *Nellore* from 3rd to 4th and invalided and a third in *South Arcot* from Ranger 6th to Deputy Ranger 1st, since removed from service on appeal to the Board, and one Ranger in *South Salem* was temporarily reduced from 5th to 6th and one conditional Ranger in *East Cuddapah* reverted to Deputy Ranger. Three Rangers (two in *North Cuddapah* and one in *South Salem*) were debarred from further promotion for one year. Five Foresters (one in *East Cuddapah*, one in *Chingleput* and three in *North Salem*).

Suspensions.—Six Rangers—one in *Nellore* afterwards invalided; two in *South Salem* (one for three days and one till he joined his new district); one in *Trichinopoly* for three months and transferred to another district; two in *North Salem*, one a Probationer and another till he joined his new district: two Deputy Rangers—one in *North Cuddapah* afterwards resigned and one in *Chingleput* for three months and then transferred: and four Foresters (one each in *North* and *East Cuddapah* and two in *Nellore*).

Work condemned.—Six Rangers (one each in the three divisions of *Cuddapah* and *Tanjore* and two in *Trichinopoly*).

Specially commended.—The work of Rangers Messrs. Gaudoin and Aranha are reported to have been very satisfactory. Rangers M.R.Ry. S. Ponnuswami Mudaliyar (*North Cuddapah*) and M.R.Ry. C. Balayya Nayudu (*Nellore*) are specially commended.

44. *Ministerial establishment.*—The pay of the last clerk's post on Rs. 15 on both permanent and temporary establishments in all the offices was raised to Rs. 20. The conduct of the ministerial establishment was good on the whole in *East Cuddapah*, satisfactory in others except *Tanjore* and *Trichinopoly*, where it was bad, and *South Salem*, far from satisfactory. The head clerk and two range clerks were removed in *North Cuddapah*.

45. *Health of the establishment and casualties.*—The year was, as usual, a very unhealthy one in *North* and *East Cuddapah*, in Sriharikota and part of Coast range, *Nellore*, in the Javadis in *North Arcot*, and in the Pachamalais in *Trichinopoly*. Two watchers and a tannadar in *North Cuddapah*, one watcher in *East Cuddapah*, one Forester in *North Arcot*, and a Forest guard in *South Salem*, died.

46. *Relations between Revenue and Forest officials.*—The relations in every district continued to be cordial. In *North* and *East Cuddapah*, the District Forest Officers, and in *Nellore*, *Chingleput*, *South Arcot* and *North Salem*, Range officers, attended the jamabandi. In *Chingleput*, the assignment of 30 acres of assessed waste on darkhast came up for discussion and on objection being raised by the Range officer, Tiruvallúr, that the land adjoins the boundary of Ugumudy reserve and the conservancy block granted to Ugumudy villagers, the petition was rejected.

47. *Service books.*—These are reported to have been verified and maintained in all the districts.

48. *Conservator's inspections.*—All the districts were visited and all District Forest offices inspected. Mr. Brasier attended the Board of Forestry at Dehra Dun in April.

49. *Touring of District Forest Officers.*—All the District Forest Officers have spent more than six months in camp except in the case of *Nellore*, *North Arcot* and *Guntúr*, due to absence of officers on leave and placing of two districts in charge of one officer.

50. *Inspection of Range offices.*—All the range offices were inspected except one in *North Cuddapah* (since inspected in July) and one in *Guntúr* which probably is due to change of District Forest Officers. One range in *Nellore*, four in *Trichinopoly* and one in *Tanjore* were inspected twice.

51. *Audit of Accounts of the District Forest offices.*—The accounts of all the District Forest offices except *North* and *East Cuddapah* were audited by the special staff of Inspectors of the Accountant-General's office and those of *Trichinopoly* and *Tanjore* twice. The results were considered to be satisfactory.

52. *Imperial Forest College, Dehra Dun.*—During the year, one stipendiary student for appointment in the Provincial Service and five Probationary Rangers were deputed for training as Government students. One Deputy Ranger and two stipendiary students returned with Ranger's certificate. The two stipendiary students for Provincial Service obtained Honours certificate and are undergoing third year's course.

53. *Vernacular Training Schools.*—Nine guards were deputed to the Vernacular Training school at Sandur and three foresters and seven guards to the school at Bhavâni. Of the foresters, the services of one were dispensed with having deserted, the second left the service and the third resigned.

54. *Work and Services of Superior Officers.*—The following remarks have been made by the Collectors regarding work of the several officers serving under them :— *Cuddapah—By Mr. P. S. P. Rice—North and South.*—"Messrs. T. Bapu Rao, "H. F. Arbuthnot and J. A. Daly—I know practically nothing of these officers. "Mr. Daly is zealous and painstaking. The others had left the district before I "arrived." *East.*—"From the little I have seen of his work, I am very well "satisfied with M.R.Ry. C. M. Maduranayakam Pillai. He has lately been unwell "and unable to do himself justice, but I have really no complaint to make." *Nellore—By Khan Bahadur Khadir Nuvaz Khan.*—"The year's administration "is, as usual, efficient and creditable to the District Forest Officer M.R.Ry. Rao Sahib "T. M. Nallaswami Nayudu." *Chingleput—By Mr. Lionel Vibert.*—"Khan Sahib "Saiyid Burhan-ud din Sahib is a keen and energetic officer and has worked hard." *North Arcot—By Mr. N. S. Brodie.*—"Mr. J. S. Battie was in charge of the "district from 1st July 1909 to 10th April 1910 and Mr. H. F. Arbuthnot from 3rd "May to 30th June 1910. Mr. Battie was therefore responsible for the administra- "tion of the department during the greater part of the year and did his work, as usual, "tactfully and well." *South Arcot—By Mr. A. F. G. Moscardi.*—"Rao Bahadur "V. Alwar Chetti continued to do very good work as District Forest Officer." *Salem—By Mr. L. E. Buckley—North.*—"Mr. Dawson left the division on 9th "September 1909. The District Forest Officer considers that he displayed, as usual, "commendable energy in touring and office work, and that his transfer was a serious "loss to the administration of the division. Mr. Clear was only a few weeks in the "division during the period under report." *Trichinopoly-Tanjore—By Mr. M. Young.*—"M.R.Ry. K. Aswatham Nayudu Garu, Extra Assistant Conservator of "Forests, was in charge of the district from 1st June 1909 to 30th November 1909, "and Mr. C. Du. Pre Thornton, Deputy Conservator of Forests, from 1st December "1909. Mr. Thornton continued to be as energetic and keen as he had always been. "He has worked exceedingly hard to get rid of the arrears left to him by his *locum* "*tenens* and has done much to put things in order again. M.R.Ry. K. Aswatham "Nayudu Garu worked hard, but he was deceived by his subordinates and he left "the district in a state of considerable confusion." *By Mr. R. F. Austin.*—"M.R.Ry. "K. Aswatham Nayudu Garu, who had been in charge of the district since April "1909, was relieved by the permanent District Forest Officer C. Du. Pre Thornton, "Esq., on the 3rd December 1909, and proceeded on leave on medical certificate for "one year. Mr. Aswatham Nayudu Garu's outdoor work accordingly did not come "under my observation. He seems to have been unfortunate in his choice and "management of office subordinates. My brief observation of Mr. Thornton's work "enables me to testify to his energy and zeal and I regret that since my joining he has "been so much engaged in Trichinopoly, as the forest work of this district, though "not extensive, has an importance of its own."

Mr. Cowley-Brown in *North Salem* must have expended at least as much energy as was observed by Mr. Brasier in the last report, as the amount of work turned out and development of communications, etc., show. Mr. Wimbush worked loyally for the short time he returned to *South Salem* and would, in time, I am sure, have made a good job of getting things into order there, had he remained.

Mr. Maduranayakam Pillai is a reliable officer and has managed his division well. It is to be hoped that his continued stay in *Cuddapah* will not undermine his health altogether.

CHAPTER V.—GENERAL.

55. *Realization of revenue from the usufruct of toddy-yielding trees on Government wastes and poramboke lands.*—The revenue realized was Rs. 33,505 against Rs. 36,316. In *North* and *South Cuddapah* and *North Salem*, the fixed fee system remained in force, the revenue collected from this was Rs. 2,143, 2,897, 1,912 against Rs. 2,478, 3,397, 2,045 respectively. In *Nellore*, the revenue fell a little from Rs. 3,102 to Rs. 2,864 and the rates charged for palmyra and date trees continued to be one anna per annum. In *South Salem*, the usufruct of such of the trees as were not taken up under the fixed fee system was leased out as usual, and the revenue realised under the fixed fee system and leasing was Rs. 380 and 2,443 against Rs. 521 and 2,504 in the previous year respectively. There was a slight decrease in other

districts except *East Cuddapah* and *Trichinopoly*. In *East Cuddapah*, the revenue rose slightly from Rs. 1,805 to Rs. 1,915 and in *Trichinopoly*, it was Rs. 4 against *nil* in the previous year.

56. *Measures adopted to encourage the growth of manure leaf-yielding trees and shrubs.*—In *North Cuddapah*, in 250 acres of Cuddapah range, seeds of manure leaf-yielding species were sown and in 2 acres of a plot of land relinquished by a ryot, wild indigo. The seeds germinated and seedlings were flourishing, but died off gradually for want of rains and continued drought. In the other two ranges, the Range Officers were slack and the operation was not conducted on a large scale. In *East Cuddapah*, some quantity of *Tephrosia purpurea* and *Pithecolobium saman* were distributed to ryots in the Cuddapah taluk through a private gentleman. Seeds of special species were collected. Fifty acres in two plots were cleared and fenced and kept ready for sowing with several species, but it was not done owing to complete failure of rains in September. In *South Cuddapah*, 23 acres in four coupes were sown broadcast with *Cassia auriculata*, *Dodonœa viscosa*, and *Pongamia glabra*. The seeds germinated, but could not withstand the drought that followed. *Jatropha* and *Poinciana elata* cuttings were planted, but did not succeed. In *Nellore*, suitable plots were selected in three ranges and seeds of manure leaf-yielding species were sown, but owing to failure of rains the experiment proved unsuccessful in all the ranges. An expenditure of Rs. 118 was incurred. In *Chingleput*, about 1,206 acres in coupes closed to grazing and blank areas in reserved forests of the two ranges, Chiingleput and Tiruvallúr, were sown with seeds of five different species. Forty per cent. of the seedlings in the former and 60 per cent. in the latter have survived the hot weather and are reported to be in a fair condition. The question of growing of manure leaf on poramboke lands on the cowle system was discussed by the Divisional officers during jamabandi and the granting of lands for this purpose is under consideration. In *North Arcot*, a few acres in Sáttúr reserve was ploughed and sown with seeds of *Acacia auriculata* and *Tephrosia purpurea*, etc., with poor results. Steps are being taken by the Revenue Department to assign lands on cowle tenure for the purpose of growing manure shrubs. In *South Arcot*, seeds of manure leaf-yielding species were sown in blank areas in two ranges. In *North Salem*, no special measures were taken in three ranges, as there was no demand for manure leaves. In *South Salem*, besides those mentioned under cultural operations, no special experiments were made. In *Trichinopoly*, no special measures were undertaken to any appreciable extent, as there is ample green leaf manure in the forests of the Pachamalais. In *Tanjore*, nothing has been done besides collecting seeds of different species. In *Guntúr*, there is at present no demand for manure leaves. With regard to the quantity of manure leaf that can be grown on an acre and the quantity required for manuring an acre, I addressed Collectors and District Forest Officers independently, but all figures given vary greatly and mostly seem to be of very little value. They run from 2 to 10 cart-loads both for yield and for requirement. Whether the yield refers to lopping or reaping of forest growth is not stated in any case, and it does not appear if leaf has been regularly grown as a field crop anywhere. The production ought certainly to be more. No one has stated what the yield of *indigo* is, though reliable figures for it should be easily obtainable by Tahsildars and they would serve as a standard.

Rules under the Forest Act.

57. *Timber Transit Rules.*—Transit rules for timber in the three divisions of *Cuddapah*, for sandalwood in *North and South Salem*, and for sandalwood and Red Sanders in *North Arcot*, worked satisfactorily, and no complaint was brought to notice. The Board having declined to approve transit rules for *Trichinopoly*, a general order in the form of a notice was issued locally that wood and manure leaves removed from patta lands should be covered by chits (attakshis) obtained from village officers in order to prevent illicit felling and smuggling of poramboke trees under cover of permits. For *Guntúr*, the revised transit rules await the sanction of Government.

58. *Rules under Section 26 of the Forest Act.*—The privileges allowed by these rules were generally availed of by the people and no complaint or abuses were brought to light except in *East Cuddapah and South Salem*. In *East Cuddapah*, the privilege was abused by goat herds hacking and cutting tops of valuable trees in unreserved lands and in *South Salem*, many infringements of the rules (collection of firewood and manure leaf for sale or for use in other than "neighbouring" villages) were detected in the large areas of unreserved forests in the Atur range.

59. *Inventory of valuable stock.*—The stock registers are reported to have been maintained and verified in all the districts.

60. *Rain-gauges*:—In *North Cuddapah*, *Chingleput* and *Trichinopoly*, there are no rain-gauges and in other districts readings were properly recorded.

61. *Supply of forest produce to meet the wants of the people.*—As usual, the sale of timber, fuel, bamboos and agricultural implements in departmental depots at reasonable rates have proved most useful in meeting the demands of the people; but that various town depots for firewood have, as reported by Collectors, been very popular, because the selling rates were low, cannot altogether be regarded as satisfactory. Little progress was made in transferring the distribution of fuel back to private agency, and it will, I fear, take a long time and much care and trouble to effect it without causing complications and get rid of the tremendous *incubus* which the sudden growth of departmental traffic has laid upon us. In *North Cuddapah*, permits were issued to a small extent for the removal of forest produce for *bonâ fide* domestic and agricultural purposes in places where the depots are too far away. In *East Cuddapah*, chits were issued to villagers for fuel stacked in the forests. In *South Cuddapah*, permits were issued in places where the demand was too small or where for other reasons localised felling was impossible to meet the wants of the people. In *Chingleput*, permits for 1st, 2nd and 3rd class timbers from unreserved lands were issued, as also for manure leaves from forests open to grazing and minor produce. Fuel was sold to villagers in the coupes felled departmentally as also in the several sale depots. In the latter the demand could not be fully met by the limited yield. This would appear to conflict somewhat with a view recently expressed by the Acting Collector that reservation had been over-done in the district. In *North Arcot*, permits were issued for grazing and manure leaf in all the ranges and for bamboos from coupes of sanctioned working plans in three ranges worked departmentally. Fuel and bamboos were also supplied to ryots on payment of seigniorage rates *plus* the cost of collection. In *North Salem*, permits were issued for unreserves and in *Trichinopoly* for cattle grazing and minor produce, from stations located at convenient centres.

62. *Sale of fuel at the edge of the forests.*—In *North Cuddapah*, fuel is sold at the edge of the coupes to resident ryots and bullmen. No contractors have come forward to purchase standing growth in the forests and to sell fuel in the towns owing to difficulty of controlling bullmen. In *East Cuddapah*, fuel chits were issued to villagers for fuel stacked in fuel coupes. Steps were taken to abolish the system of selling fuel in town sale depots and to introduce that of selling fuel at the edge of the forests binding them to retail it to the public at the prevailing rates. In *South Cuddapah*, besides leasing out two coupes to contractors for sugarcane-boiling, 837 cart-loads of fuel out of fourteen coupes worked departmentally were sold to the ryots at the edge of the forests. In *Nellore*, steps are being taken to give effect to this. In *Chingleput*, fuel felled departmentally was sold to ryots wherever there was demand and also to a contractor for sale in two depots handed over to him, but the results were not satisfactory in the case of the contractor, as he failed to purchase the full yield of the coupes which necessitated the transport of fuel to Madras depots. In *North Arcot*, forest produce was sold at the edge of the forests in five ranges to some extent to ryots for sugarcane-boiling purposes and to contractors for brick-kilns, etc., and also in the coupe in one of the above five ranges at depot rates less cart hire. In *South Arcot*, forest produce is, as a rule, sold in or at the edge of the forests and in the case of casuarina plantations, the wood is felled and stacked by piece-workers in the coupes and the bulk of the produce is sold to contractors except a small quantity which is removed to sale depots. Only in places where contractors were not forthcoming, the produce was felled departmentally and removed to sale depots. In *North Salem*, tenders were invited for the removal and disposal of forest produce in three most important and accessible coupes. None were received, but it must be due to the short notice. Further attempts will be made. In *Trichinopoly* and *Tanjore*, the matter is under contemplation. The system does not commend itself to the Collectors, as the produce is apt to be smuggled with that on private and poramboke lands, but I do not know that this is more the case in these districts than elsewhere. In *Guntúr*, produce is not disposed of to any appreciable extent on the edge of the forests owing to want of enterprise on the part of the local men.

63. *Arrangements made for the transfer of sale depots to private agency.*—In *North Cuddapah*, tenders were received only for two out of the three sale depots and in *East Cuddapah* for five sale depots proposed to be transferred for the retail sale of fuel, and were accepted. The Collector is of opinion that the margin of profit allowed

is too low in the latter district and I have agreed with him. In *Nellore*, four depots were advertised for sale by tenders, but as few tenders were received for only two depots with certain conditions which appeared to interfere with the interests of the department, they were not accepted. As advised by the Conservator, the auction-sale system will be tried, as it will give opportunity of discussion with the contractors and hearing their objections and difficulties and meeting them. In *Chingleput*, two sale depots were leased out during the year and the results are reported to be not encouraging. In *South Arcot*, the attempt made to transfer the sale depot at Tiruvannámalai to private agency proved unsuccessful. In *North Salem*, eight depots were leased out to contractors binding them down to sell produce at the rates fixed by Government except in the Bangalore depot. In *South Salem*, two fuel depots were leased out to contractors. In *Guntúr*, the question is still under consideration.

64. *Cultivation in reserved forests.*—In *East Cuddapah*, about 11 acres of dry land was leased out for cultivation on a rental of Rs. 5–11–2; while in *South Arcot*, cultivation exists to any extent only in the Tenmalai reserved forest and proposals for disafforesting all such areas have been submitted. In *North* and *South Salem*, there were no fresh grants, only the renewal of those given in previous years. In *Trichinopoly*, about 10 acres of land in Lalapet reserved forest was leased out for *korai* grass cultivation for five years.

65. *Suits.*—In *North Cuddapah*, the Official Assignee has been addressed to file a suit against a contractor for the recovery of balance instalment due for the lease of a palmyra plantation. In *Nellore*, the suit in the High Court referred to in the last year's report is still pending. In *Trichinopoly*, a suit instituted by a late contractor is pending in the sub-court. In *North Salem*, the second appeal in one of the claims of the Hudaidurgam block has not yet been disposed of. The case has been remanded to the District Court for further enquiry on two findings. In *Guntúr*, the suit filed against contractor V. Narayana Rao was decreed in favour of Government and steps are being taken to recover the amount.

66. *Live-stock.*—In *East Cuddapah*, one pair of bullocks was sold, one bull died in the Veterinary hospital in Madras and 2½ pairs were purchased. There were 5 pairs in good condition and working order at the end of the year. In *South Cuddapah*, two buffaloes were maintained for watering plants on Horsleykonda. In *South Arcot*, out of 5 pairs purchased in the previous year 3 pairs were written off, as they were losing condition. In *Trichinopoly*, eight bullocks purchased last year are reported to be in good condition. In *North Salem*, there were 27 pairs at the beginning of the year. Of these 2½ pairs were sold being unserviceable and 7 pairs were purchased. There remained 31½ pairs at the close of the year.

67. *Hill tribes.*—In *Trichinopoly*, the Malayalis on the Pachamalais were given certain concessions in respect of certain cultivation, forest produce and grazing and in return helped the department in both general and fire-protection.

68. *Prospecting licenses.*—In *North Cuddapah*, about 945 acres were leased out in five reserves to five individuals for prospecting minerals. Operations have not yet been started and no royalty collected, but only ground-rent of Rs. 167–12–0 was realised. In *East Cuddapah*, the license for prospecting for copper referred to last year was issued, but as no work was done, it was cancelled. In *Trichinopoly*, a license for prospecting for wolfram and its associated minerals was issued to Mr. Thomas Leishman of the Corona Prospecting Syndicate, Bangalore, but work had not been commenced up to the close of the year.

Mica and Mica Mining.

69. *Applications.*—Thirty-nine applications were received during the year in addition to the 29 (number disposed of last year being 66 not 65) pending disposal at the commencement of the year, making a total of 68. Of these 54 were disposed of, leaving a balance of 14 at the end of the year. The greater number of these applications were, as usual, for prospecting licenses.

Mines in Government lands (State mines).—Of the 55 existing mines, the lease of one was cancelled, three expired by efflux of time and 12 were relinquished. Six were newly sanctioned, so that there were 45 working mines at the end of the year. Four exploring and 14 prospecting licenses were also issued during the year. Only six mines were worked without break; the work in the other mines was either irregular or *nil.* Some of the most important mines of the district held by M.R.Ry. A. Subba Nayudu were neglected on account of his financial troubles and a separate report regarding this has been submitted to the Board.

Patta land mines (shared mines).—The year commenced with 29 and closed with 24. Two mines worked continuously in the year and the other mines did not work well.

Mines in permanently-settled estates (private mines).—The number of these mines fell during the year from 20 to 6. Nine of these were worked in shrotriem lands, six in zamindari and one in inam land.

Illicit mining.—A case of unauthorised mining arose out of an encroachment by a licensee. The mica got was seized and sold in public auction.

Outturn and royalty.—There was a large decrease both in the output and the royaltly realized as will be observed from the figures noted in the margin. The fall is due chiefly to the non-working of the best mines in the district and partly also to the depression of trade.

	LB.	OZ.	RS.
1908-1909	600,395	11	13,886
1909-1910	239,952	9	7,569

Financial results.—The total revenue realized during the year was Rs. 12,215 against Rs. 20,951 in the previous year.

Labour.—About 2,644 persons, of whom 1,295 were men, 1,022 women and 327 children, had employment during the year against 3,228 in the previous year. The decrease is due to the slackness in working. The wages and the hours of working were the same as in previous years.

Accidents.—There was one slight accident due to the unexpected bursting of a charge of dynamite. There was a slight injury to a man and he recovered shortly after.

Ventilation and lighting in tunnels.—Tunnel working was carried on in 7 mines and there were no complaints with regard to ventilation or lighting.

Inspection by Superior officers.—The District Medical and Sanitary Officer inspected 10 mines, the Collector 14 mines and the Inspector of Mines, 50.

Prospects of industry.—There was no change in the prospects of the industry and the low prices of mica continued during the year. A new mineral known as "Sameskite" was discovered in the Sankara mine, and it is considered to be a valuable one likely to give a stimulus to the mining industry. Applications are being received for prospecting licenses in respect of this mineral. Mr. Fred Cross of the Anglo-Indian Trading Company has applied for a prospecting license in respect of copper.

MADRAS DEPOTS.

70. The depots have gained greater popularity and the sales have improved considerably and promise still further to improve gradually.

Depots and depot sites.—No new depots were opened during the year, but the depot site at Moolakothalam had to be vacated for handing over to Public Works Department. A new site consisting of six grounds on a rental of Rs. 30 per mensem was selected at Kondi tope and occupied from 1st January. The tiled shed at Rayapuram was purchased at a cost of Rs. 50 for the use of depot-keeper.

Supply and disposal of produce at the depots.—Appendix H shows the sources of supply, the quantity received and disposed of and the revenue realised during the year in the different depots. From that it will be observed that the quantity sold and the revenue realized from the different kinds of produce rose during the year on account of increased supplies and increased demand, except in the case of charcoal. The fall under this is due to the large quantity of private charcoal brought from zamindari forests and sold at cheaper rates, and to the Madras club discontinuing its custom.

Financial Results.—The following statement compares the revenue and expenditure with those of the previous year:—

	1908-09. RS.	1909-10. RS.
Revenue	99,814	1,21,980
Expenditure	19,939	22,723

The percentage of expenditure to revenue, viz., nearly 20 per cent., seems to be high for mere depot expenses, but there is a slight reduction compared with the previous year.

Establishments.—The establishment was increased a little from March 1910 by the addition of two gate-keepers on Rs. 8 each and two depot-watchers on Rs. 6 each and one depot clerk on Rs. 15.

T. P. PEAKE,
Ag. Conservator of Forests, Central Circle.

20th September 1910.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

SOUTHERN CIRCLE FOR 1909–1910.

Chapter.	Subject.	Para.
I	Constitution of State Forests—	
	1. Alteration in Area—	
	Areas—	
	Changes during the 12 months	1
	Details of the changes in areas	1
	2. Forest Settlement—	
	Progress in Settlements and Outturn of Work by Special Forest Settlement Officers and by Revenue Divisional Officers	2
	3. Demarcation—	
	Lengths demarcated and cost of permanent demarcation ...	3
	4. Forest Surveys—	
	(*a*) By Survey of India Party	4
	(*b*) By Departmental Survey	5
II	Management of State Forests—	
	1. Regulation of Management—	
	(*a*) Preparation and Control of Regular Working-plans ...	6
	(*b*) Preliminary Working-plans Reports	7
	(*c*) Annual Plans of Operations	8
	2. Communications and Buildings	9
	3. Protection of Forests—	
	(*a*) General Protection	10, 11 & 12
	(*b*) Protection from fire	13, 14 & 15
	(*c*) Protection from cattle	16
	(*d*) Protection against injuries from natural causes ...	17
	4. Silviculture—	
	(*a*) Natural Reproduction	18
	(*b*) Artificial Reproduction	19
	(*c*) Operations for improvement of the growing stock ...	20
	(*d*) Experiments—	
	(i) On species	21
	(ii) On other points	22
	5. Exploitation—	
	(*a*) System of Management—	
	(i) Major Forest Produce—	
	(1) Clear or Regeneration Fellings	23
	(2) Selection Fellings	24
	(3) & (4) Improvement and Coppice Fellings ...	25
	(5) Unregulated fellings	26
	(ii) Minor Forest Produce—	
	(1) Miscellaneous Produce	27
	(2) Extraction of Fodder	28
	(3) Hay-making	29
	(4) Grazing	30
	(*b*) Outturn and Sources of Forest produce	31
	(*c*) Agency of Exploitation—	
	(i) By Departmental Agency	32
	(ii) By Purchasers	33
	(iii) By Right-Holders	34
	(iv) By Free-Grantees	35

Chapter.	Subject.	Paras.
III	Financial Results—	
	Revenue and Expenditure	36
IV	Administration—	
	General—	
	Circle charge	37
	District Forest Office and Range charges	37
	Conduct of Establishment—	
	(i) Executive staff	38
	(ii) Protective staff	39
	(iii) Ministerial establishment	40
	Health of Establishment and Casualties	41
	Relations between Revenue and Forest Officials	42
	Service Books	43
	Tour of the Forest Member	44
	Conservator's Inspections	45
	Touring of District Forest Officers	46
	Inspection of Range Offices by District Forest Officers ...	47
	Audit of the accounts of the District Forest Offices	48
	Forest College, Dehra Dun	49
	Vernacular Training School	50
	Work and services of Superior Officers	51
V	General—	
	Realization of revenue from the usufruct of toddy-yielding trees on Government waste and poramboke lands	52
	Measures adopted to encourage the growth of manure-leaf yielding trees and shrubs	53
	Supply of Forest Produce to meet the wants of the people ...	54
	Rules under the Forest Act—	
	Timber Transit Rules	55
	Rules under Section 26 of the Forest Act	56
	Other rules	57
	Hill tribes	58
	Cultivation in reserved forests	59
	Live and dead stock—	
	Live stock	60 (*a*, *b* & *c*)
	Inventory of valuable stock	60 (*d*)
	Rain-gauges	61
	Museum and Parks—	
	The Gass Forest Museum, Coimbatore	62
	The Bryant Park Reserve at Kodaikánal	63
	Suits	64
	Appendices A to J	Pages i—vi
	Forms 65 to 86	,, vii—lxi

FOREST ADMINISTRATION REPORT

OF THE SOUTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1910.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

Reserved forests.—The total area was 4,995 square miles against 4,908 square miles at the commencement of the year. Of the increase, 84 square miles are only apparent being due to adoption of Survey of India figures in *Kollegal* and *North Coimbatore*. Three small areas of 7 acres were disafforested in the *Nilgiris*, *North Malabar* and *Tinnevelly*.

Reserved lands.—One square mile was newly constituted, 3 square miles were transferred to reserved forests and 16 to unreserves and 38 square miles erroneously included in previous years, owing to inaccurate computation, were deducted. There were 588 square miles at the close of the year; of these 108 square miles in *South Canara*, not intended to be constituted reserved forests, were awaiting inspection before being transferred to unreserves.

2. Forest Settlement.

2. Five blocks in *South Canara*, two in the *Nilgiris* and one in each of *Kollegal*, *North Coimbatore* and *Tinnevelly* were finally settled during the year. Fifteen small additions with a total area of 1 square mile were brought under settlement; ten of these were in Tinnevelly, for improving boundaries and eliminating enclosures. Thirty-six blocks remained under settlement at the end of the year, but the actual settlement of 17 of these was completed.

3. Demarcation.

3. Progress in permanent demarcation was poor except in South Canara and Madura; in the former district, 64 miles of permanent stone lining or lock-spitting was done, 18 miles by subordinates, 46 at a cost of Rs. 631; in the latter, 293 miles of boundary were permanently demarcated at a cost of Rs. 6,459. In South Malabar and the Nilgiris, boundary lines were recleared for the Survey of India, and, in the former district, the Attapadi lines were improved. No permanent demarcation was carried out in North and South Malabar, owing, it is said, to the constant changes of Officers and Rangers, but this does not account for the fact that no existing lines were kept clear by subordinates. In South Canara, it is stated that 2,015 miles of line were kept clear by subordinates free of charge; the expression is apt, for the subordinates do not clear the lines but get the clearing done by certain classes of villagers who use the reserves. The expenditure in Tinnevelly was incurred chiefly on the demarcation of enclosures and coupes; the demarcation of the annual coupes should not be charged to demarcation, as the inclusion of figures relating merely to the clearing of lines in connection with working the forests, with those relating to the capital cost of demarcation of the forests, produces a false impression.

4. Forest Surveys.

(*a*) *By the Survey of India Party.*

4. Numbers 7 and 8 parties continued the survey operations on the 2-inch scale, the former in South Canara and the latter in the Nilgiris and Central and South Coimbatore. 39·748 square miles of reserves in South Canara were surveyed. In

the Nilgiris, the survey of reserved forests was completed. In Central Coimbatore, the survey of Attapadi valley was completed and three other forests, covering 29 square miles, were also surveyed. In South Coimbatore the greater part of the Anamalai reserved forest covering 130 square miles was resurveyed on the 2-inch scale, as the 4-inch scale maps were found to be inaccurate. The inaccuracy of these maps has been well brought out by the survey for a light tramway in the Tekadi leased forest; much of the plane-table work must have consisted of the roughest possible sketching, for, not only are hillocks omitted, but streams are entered with no regard to their actual position on the ground.

(b) By Departmental Survey.

5. The coupes of the year in North Malabar, Central and South Coimbatore and Tinnevelly were surveyed departmentally. A Special Officer was appointed at the close of the year, for verification of boundaries of the forests in Bhavani and Satyamangalam Taluks. In Madura a Surveyor, under the supervision of the Special Deputy Collector appointed to investigate certain forest questions, surveyed the areas cultivated within the forests of the Palni Hills.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) Preparation and Control of Regular Working Plans.

6. No new working plan was either drawn up or sanctioned during the year. Considering that the circle was short of District Forest Officers and of Rangers during the year and that the establishment was fully employed on protection and works, no progress could be expected. The revision of the working plan for the Mount Stuart forests prepared by Mr. Arbuthnot was not completed by the District Forest Officer, South Coimbatore, but a good deal of information had been collected for the purpose. Several minor deviations from the prescriptions of the sanctioned working plans concerning area, material, order, etc., of coupes were sanctioned. The important deviations were as follow :—

In *South Canara*, bamboos were not extracted from Mavinakodlu, nor were sandalwood stills worked in Andar North and Nire reserves for want of demand; bamboos were not felled from Shibaje coupe, as sufficient to meet the demand were extracted from Nerankimale; fuel fellings were not undertaken in Narimogar and Mulliar reserves, as the stock was sufficient. In *Kollegal*, the removal of spiked and dead sandalwood trees in Bailur continued and consequently the coupe prescribed for the year was not worked. In *North Coimbatore*, spiked and dead sandalwood trees were removed from coupes IV and V of Gutialattur sandalwood working circle. With the exception of the working plans for Walayar and Sholakarai reserves, for one of the working circles of Bolampatti and for Erode Range, the others in *Central Coimbatore* are unworkable, but wherever possible coupes were worked irrespective of the prescriptions of the working plans. Work in the Varigalli valley in *South Coimbatore* was not commenced as the export road has not been constructed. Thalinji working plan was not worked, the road for exploitation not being opened owing to apathy and incompetence of Range Officers.

(b) Preliminary Working Plans Reports.

7. A revised preliminary working plan for Mudumalai, Benne and Kumbarakolli reserves in the Nilgiris was prepared and awaits the sanction of the Board. A preliminary working plan report was also prepared for Puliangudi working circle (5 square miles) in Vasudevanallur Ghat forest of Tinnevelly district and approved by the Conservator.

(c) Annual Plans of Operations.

8. These were generally adhered to and the important deviations apart from those mentioned under "Working Plans" were—*South Canara*—Charcoal and fuel from Durgamale coupe were not transported to Mangalore and Karkal respectively, as the stock in Mangalore was sufficient and the cost of transport to Karkal was

prohibitive. The depot at Coondapur was handed over to be worked by a contractor. *North Malabar.*—No timber was transported to Nanjangode, Mysore and Hampapur, as the stock was disposed of in the forests. The bridges on the Kottiyur road were not constructed owing to delay in revising the plans and estimate; Kurichiyat reserve was not demarcated, estimate not being prepared in time. The proposed rest-house at Bavali was not built as funds were required for the incomplete works of the previous year and it is not certain that a rest-house at Bavali is required. *South Malabar.*—The construction of a rest-house at Thodikundy in Attapadi was deferred. *The Nilgiris.*—Hay was not manufactured at Anaikatti on an extensive scale as proposed. *Kollegal.*—The rest-house at Gobinatham was not built, as funds were required for other works. The construction of Ponnachi road was postponed, a portion of it not having been traced for want of establishment. *North Coimbatore.*—Two proposed roads were not constructed partly for want of funds and partly on account of inadequate establishment. *Central Coimbatore.*—The proposed Tholampalayam inspection bungalow was deferred, as there is no need for it until a revised working plan has been framed. Prickly-pear was removed from several coupes covering a large area. *South Coimbatore.*—The estimated quantity of timber was not transported owing to the difficulty of procuring carts; the construction of Tekadi ghat and other proposed roads was deferred for want of an Engineering Surveyor, but much progress was made at the close of the year in aligning and tracing. *Tinnevelly.*—The construction of subordinates' quarters at Naranapuram and the conversion of Pappuparai-Chinna Othu path into a bridle-path were deferred, site not having been acquired for the former and a practical trace not having been found for the latter. Progress has not been satisfactory, and this is chiefly due to the fact that the annual plan of operations depends for its execution upon a sufficiency of District Forest Officers, and competent Rangers, whereas actually there was a shortage of both; district charges have been doubled and range charges have been held by unqualified Deputy Rangers. The development of the forests must suffer until the department is properly manned.

2. Communications and Buildings.

9. The outlay on communications was Rs. 39,065, that on buildings Rs. 42,974, as compared with Rs. 40,636 and Rs. 37,047 respectively during 1908–1909; details of the work done are given in Form 70.

(*a*) *Roads and Bridges.*

Large sums were spent on repairs to the semi-public roads in *Kollegal* and *North Coimbatore*, the condition of which is improving. In *South Coimbatore*, progress was made on the first section of the Varigalli valley road; plans and estimates for the whole road were prepared, submitted to Government and received back for further detail. The Tekadi ghat project was under investigation at the close of the year. In *Madura*, the scheme of roads in the north-east portion of the district is approaching completion, but at the same time the length to be maintained and improved is increasing; the District and Taluk Boards, recognising the importance of the system of roads contribute very fairly to their upkeep. In *Tinnevelly*, six new works were in progress, but none were completed during the year.

(*b*) *Tramways and Wire-ropeway.*

The plans and estimates for the proposed Wynaad tramway were returned for revision, and it has since been proposed to obtain a road train instead of a tramway and to convert the tramway trace into a road. The tramway in Tunacadavu range was worked as usual; a feeder to coupe XVI was laid down and a diversion was made on the main line, to avoid a bad bit of grading. The financial statement as usual shows a loss, and as usual is misleading, for carts cannot be obtained at the rates in force twenty years ago, nor can bullocks be hired without great difficulty; moreover no credit is taken for the various branches which have from time to time been added to the line, but for which more feeder roads would have had to be made. Whatever the financial statement may show, the tramway has enabled work to be done which could not have been done without it.

The Mount Stuart wire-ropeway was not used during the year; it was not constructed to carry heavy logs, and is consequently of no use now that there are no sawn scantlings to be sent down; moreover the supports would have had to be renewed before the ropeway could be used.

(c) Buildings.

The most important works were the construction of a rest-house at Chedleth in *North Malabar*, the purchase of the Mule-breeding Company's buildings at Anaikatti in the *Nilgiris*, construction of a rest-house at Araipalayam (*Kollegal*), reconstruction of the Tattakarai rest-house (*North Coimbatore*), in connection with which asbestos tiles were used, being light to transport, not very liable to breakage and reported to be sun-proof; it was found that they afford absolutely no protection from the sun, and are useless without a thick ceiling below them. In *South Coimbatore*, a rest-house and range quarters at Tekadi were commenced; in *Madura*, one rest-house and three sets of lines for subordinates and in *Tinnevelly* two sets of lines were constructed.

(d) Miscellaneous works.

In *South Canara*, two river beds were improved to facilitate floating; this is a work capable of considerable expansion in the West Coast districts; wells were dug, depots fenced, compounds cleared, water channels repaired as usual. An hydraulic ram was purchased to replace the pump which used to be worked by the mill machinery and supply Mount Stuart with water, but at the close of the year it had not been fixed in position.

3. Protection of Forests.

(a) General Protection.

10. The following statement gives a classification of the cases of the year under the different heads of offences :—

Class.	Injury to forest by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tract in which grazing is prohibited.		Other offences.		Total cases.	
	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.
1. Cases taken into court.	37	53	627	665	313	374	146	146	1,123	1,238
2. Cases compounded ..	26	26	2,033	2,000	1,044	915	211	241	3,314	3,182
3. Cases undetected ..	296	263	4	6	224	219	4	1	528	489
Total ..	359	342	2,664	2,671	1,581	1,508	361	388	4,965	4,909

The cases under "felling" and "other offences" include 169 and 2 respectively relating to unreserved lands. The offences in such lands have not been reported from Central and South Coimbatore and Madura. Twelve cases are reported to have been dealt with by the Revenue Divisional Officer, Kollegal, but particulars are not furnished. In Tinnevelly the cases disposed of by two of the Divisional Officers were not reported.

Offences in reserved forests.—No useful comparison can be made of the cases under "felling" and "other offences" as last year's figures included the cases in unreserved lands in some districts. The increase under "injury by fire" was in South Canara due to increase in the number of fires caused by travellers, etc., which were treated as undetected offences. The grazing offences increased by 5 per cent. The increase was chiefly in North Coimbatore, Kollegal and Tinnevelly and is reported to be due to better protection and also to the detection of offences in the first district, by the students of the Vernacular Training School while being instructed in patrol work.

A large number of offences was detected by the students nearly every time they were placed on patrol duty even on comparatively small areas; this is a convincing testimony to the considerable number of offences committed but not detected or

reported; this state of affairs is only to be expected until the establishment which is quite inadequate to effect any really efficient supervision and protection is sufficiently strengthened.

11. The percentage of acquittals fell from 15·3 per cent. to 9·3. The number of cases compounded and the amount of compensation realised were 2,942 and Rs. 28,507 respectively against 2,834 and Rs 31,865 in the previous year. The variations occurred chiefly in South Canara, four divisions of Coimbatore and Madura and are not explained. The punishments inflicted by Magistrates are reported to be fair in South Canara and satisfactory in South Malabar. The offences in Bhavâni Range, Coimbatore district, continued to increase as the punishments inflicted were not deterrent. In Madura, there was a case of fire in which a lenient punishment was inflicted, and it is reported that the District Magistrate has taken due notice of it.

12. A reward of Rs. 50 was granted to a Forester in Madura for detecting a theft of elephant tusks from the forests.

(*b*) *Protection from fire.*

13. *Special protection.*—No change was made during the year in the method employed for protecting the forests from fire. A sum of Rs. 22,793 was spent on special fire protection operations. The area subjected to special measures amounted to 1,311 square miles against 1,174 square miles in the preceding year. Of these, 1,248 square miles were successfully protected against 1,148 square miles in the last year. The proportion of failures rose from 2 per cent. to 4·8 per cent., and the cost per square mile of successfully protected area rose from Rs. 17-13-9 to Rs. 18-4-3. The establishment of fire patrols in South Malabar had to be continued for a longer period than usual owing to want of early rains. In North Malabar, Tirunalli block covering 20 square miles was burnt, partly owing to delay in commencing the work of protection, as the establishment was short-handed, and, partly to the absence of the guard from the beat. The season was an exceptionally dry one throughout the circle and the results of special protection are excellent.

14. *General protection.*—The area estimated to have escaped fire without special measures amounted to 3,020 square miles against 931 square miles in the previous year; the increase was due chiefly to the inclusion of certain areas in South Canara, Kollegal and North Coimbatore not brought on to previous year's returns. Fires are said to have overrun 4·9 per cent. of the total area, but the figure would be equally correct if the decimal point were removed. The registration of fires in these areas continued to be unreliable; many fires were not reported and the areas of those reported were considerably underestimated; this state of affairs must continue until the areas of ranges and beats are very much reduced. In *Tinnevelly*, about 30 square miles are reported to have been burnt maliciously by graziers.

15. The number of, and the causes to which, fires were attributed are shown in Appendix H. The number of fires increased mainly in South Canara due to more accurate recording; this is possibly a direct result of the increase in the number of Rangers in the district.

(*c*) *Protection from cattle.*

16. The proportion of forests closed and open to grazing and browsing was as follows:—

Closed to all animals for the whole year	15 per cent.
Open to cattle, sheep and goats	84, 79 and 2 per cent., respectively.

The decrease in the area closed to grazing was due to more accurate classification in South Canara, North and South Coimbatore and to the reopening of areas closed in Tinnevelly in the previous year. The only district in which goats were admitted was *Madura*. The number of animals licensed to graze on payment was 591,882 against 566,943. This continued growth is deplorable, as many of the reserves are so heavily overgrazed that natural reproduction is much hindered. The Government of India remarked with reference to the forests of the Punjab "until the cattle

permitted to graze in any forest are restricted to such number as the area can support without deterioration, the forest administration cannot be said to be on a proper basis". In this circle there is at present no restriction on the number of cattle admitted to any forest; information regarding the grazing possibility of the forests is being collected, and a scheme for distributing the grazing in Udamalpet Taluk of Coimbatore district has been prepared and awaits the orders of Government.

A comparison of the number of animals impounded during the year with that of the previous year and with the preceding triennial average is shown in Appendix I. The number of cattle impounded was 27,152 against 25,955 in the previous year. The increase in the Nilgiris is reported to be due to stricter supervision over subordinates, in Kollegal and North Coimbatore to improved detection and in Tinnevelly to energetic supervision. In Madura there was a large decrease which is ascribed to diminishing illicit grazing

(*d*) *Protection against injuries from natural causes.*

17. In *South Canara*, caterpillars (species not reported) defoliated some of the teak in the Parappa plantation. In *North Malabar*, *Hyblæa* attacked teak in Chedleth in December; in Kanoth, the caterpillars left the trees early in November, apparently to pupate under the grass. In neither of these districts were any steps taken to combat the attack. In *South Malabar*, *Pyrausta* defoliated the young plantations in the first half of November, and both *Hyblæa* and *Pyrausta* commenced an attack in June, but the rains put an end to the attack. Locusts did not appear during the year; this is possibly due to the action taken in previous years to exterminate this pest. The mahogany borer is reported to have attacked four trees; either the borer is dying out, or its depredations have not been carefully observed. A flood in June washed out 13 plantation trees. In *Kollegal* and *North Coimbatore*, the spike disease continued to spread and the working plans prescriptions had to be modified to provide for the removal of all attacked sandalwood trees; so far, the removal of spiked trees has failed to check the spread of the disease; no progress was made towards discovering the cause of spike. In *Central Coimbatore*, no extensive depredations by insects calling for special measures were reported. In *Tinnevelly*, an omniverous caterpillar (not identified) did much damage round Mundanthorai.

4. Silviculture.

(*a*) *Natural Reproduction.*

18. In *South Canara*, natural reproduction is good, but the hardwood species are being suppressed by the more rapid growth of soft-wood species; more establishment is much needed to supervise the necessary cleanings, thinnings and improvement fellings; *Hopea parviflora* hardly seeded at all. In *North Malabar*, most species except teak reproduced satisfactorily; owing to changes of District Forest Officers and to one District Forest Officer having charge of both the Malabar Forest districts, little or nothing was done to encourage teak regeneration. *Shorea Talura* is said to be reproducing remarkably well in Rampur. In *South Malabar*, *Xylia dolabriformis* is coming up in large numbers on class III soil in the plantations and in the natural forests; *Swietenia macrophylla* continues to reproduce freely in plantations 1891, 1892 of Eddacode, 1890 of Pokote and 1856 of Pannengode; reproduction in natural, deciduous and shola forests is satisfactory. Bamboos seeded in May and June and 75 per cent. of the clumps died. In the *Nilgiris* reproduction by seed is poor in the forests on the Nilgiri-Wynaad plateau. In *Kollegal* and *North Coimbatore*, reproduction is fair in areas protected from fire and cattle; teak and rosewood reproduce freely from suckers, especially in the Geddesal forests, where, however, a disastrous fire burnt back every sucker. In *Central Coimbatore*, reproduction is unsatisfactory especially in the dry areas near Mettupalayam. Babul reproduces freely in the Kunnattur and Athiur tank beds, but the seedlings have no chance against the cattle. Both bamboos (*Bambusa arundinacea* and *Dendrocalamus strictus*) seeded throughout the Walayar and Sholakarai reserves and to some extent in the Bolampatti valley. In *South Coimbatore* evergreen forests, surli (*Mesua ferrea*),

poon-spar, red and white cedars and jack were prominent in reproduction; in the deciduous forests reproduction was good, where fires were excluded; a remarkable seedling crop of *Pterocarpus Marsupium* was observed in Punachi Working Circle. In *Madura*, reproduction in the evergreen forests was satisfactory.

Coppice reproduction was satisfactory almost everywhere, where the coppiced areas were protected from fire and cattle; in *North Coimbatore*, it was exceptionally good in the Ennamangalam Working Circle. In *Central* and *South Coimbatore*, *lantana* and *Acacia Intsia* checked coppice growth, but experience shows that the check is only temporary, and, after a year or two, the coppice gets ahead of these pests; prickly-pear is a much more serious enemy and must be eradicated over large areas. In Kottur and Udamalpet, coppice was not good; the areas contain degraded forest and protection is imperfect; fires did much damage. In *Tinnevelly*, want of rain seriously affected the coppice growth, except in specially favoured localities such as Kuttalam.

(b) Artificial Reproduction.

19. *Regular plantations—South Canara.*—1·8 acres of Tannirbhavi plantation were planted with casuarina, during the year and 1·8 acres of the same plantation, actually planted last year, but paid for during the year under report are also shown in column 3 of Form 75. *North Malabar*—11,470 casualties replaced in Begur and Chedleth teak plantations. *South Malabar*—Karimpoya Coupe III, 134 acres planted with teak 8′ × 8′, three acres with *Terminalia tomentosa* 8′ × 8′; 136 acres prepared for 1910 plantation; 30,249 casualties replaced in 1909 plantation, 26,898 in 1908 and 136 cocoanuts in Beypore tope. *The Nilgiris*—nine new kinds of *Eucalyptus* were introduced from Australia; three plantations at different elevations are to be formed; the first was being formed at the close of the year; two of the Jackal plantations were fenced; the Kullar and Benhope plantations were maintained by the Curator of the Government Botanical Gardens. *South Coimbatore*—12 acres of an old teak plantation, overgrown with bamboo, were cleared in Tunacadavu Range, and arrangements made for restocking 10 acres. In Udamalpet, 15 acres cleared and nurseries established for planting out during the North-East monsoon. *Madura*—Upper Palni pine plantation extended by five acres, 1,805 seedlings planted out, 7,200 casualties in 1906 plantation replaced in July and August 1909; 23½ acres planted 6′ × 6′ in May and June 1910 with 28,408 seedlings; nearly a lakh of seedlings in nursery ready for next year's plantation. *Tinnevelly*—64,428 palmyra nuts, 3,000 cashew seeds and 312 measures of miscellaneous seeds sown in 130 acres of Kuderimoliteri; the cashew seeds germinated, but the seedlings died; 75 per cent. of the palmyra nuts germinated; 522 new cuttings of *Odina Wodier* were put out and 380 casualties replaced.

Taungya plantations—South Canara.—181 acres kumaried and planted with 41,837 seedlings of teak, rosewood, *Hopea parviflora*, *Terminalia tomentosa* and *Pterocarpus Marsupium*. 9,312 established seedlings of 1907 and 1908 on 93 acres were paid for. *The Nilgiris*—five acres of the Benne tuckle areas were planted; 30 per cent. of the seedlings failed.

Cultural operations.—South Canara.—1,300 survivals out of 1,750 teak plants in Coupe I, Narimogar are doing well; Mulliar teak plants failed; in coppiced coupes seed was sown in 30,000 pits with satisfactory results; most of the sowing done by subordinates. *North Malabar*—431 acres teak and 61 acres miscellaneous plantation weeded at a cost of Rs. 1,047. *South Malabar*—25 acres of plantation on third-class soil in Pannengode and Valluvasheri were coppiced and replanted with 9,036 seedlings at a cost of Rs. 103; in future, such areas are to be under-planted, not coppiced; a nursery for next year's under-planting was formed at a cost of Rs. 150; third-class areas planted in previous years were weeded and 22,020 casualties replaced—Rs. 242; 773 acres regular plantation weeded—Rs. 1,723. *The Nilgiris*—Benhope and Kullar plantations were weeded and watered; guinea grass for Government bullocks was cut in the latter. *North Coimbatore*—ten bags of sandal seeds were dibbled in Kurumbur sandalwood coupe, Gutialatur; sandal seeds were also dibbled in pits from which trees were uprooted in Devarmalai Coupe, Burgur. The students of the Vernacular Training School dibbled rosewood and vengai seeds in selected areas at Geddesal. No results as yet. *Central Coimbatore*—seeds sown broadcast in coupes,

no germination observed; palmyra seeds dibbled in Virumandampalayam reserve did fairly well, those in Vellode tope did badly. On the covering of pits, in which prickly-pear was buried, seeds were sown with success; teak and rosewood in Odanthorai, margosa and tamarind in Sullipalayam. The small area sown last year at Sadivayal in Bolampatti No. II reserve was burnt, but teak, rosewood and vengai have since sent up fresh shoots. In Mettupalayam Range, ridge sowing along strip lines in coupes was attempted, but the ridges, being the most thornless paths, were used by the felling coolies and consequently the sowings failed. *Madura.*—Of Block XIX in Sarandangi, 100 acres were fenced with euphorbia cuttings and 58 acres ploughed and sown with 174 measures of seeds of manure-leaf-yielding shrubs, chiefly *Cassia auriculata* and *Tephrosia purpurea*, at a cost of Rs. 247; growth on the areas sown in 1904–1905 is now six feet high and ready for use; the outturn is half a cart-load of manure leaves per acre; as two cart-loads are required for every acre of paddy cultivation 3,60,000 acres of manure-leaf plantations would be required to meet the demand for manure leaves in the district; the outturn might be doubled in course of time, but, even then, the area required makes it out of the question to attempt to meet the whole demand from areas specially set aside for manure-leaf cultivation. The total area of the blocks under this form of cultivation is 3,039 acres. *Tinnevelly.*—3,168 measures of seeds sown and 13,806 seedlings planted in the coupes worked during the year in the ghat forests; results poor owing to want of ruin. *Tephrosia purpurea* and *Cassia auriculata* seeds were sown in Kaliavoor where they failed owing to drought and in Gangaikondan where they germinated fairly well; the total area sown was 42 acres, the amount of seed used being 1,410 measures.

Large quantities of seed, chiefly of timber-yielding species, were issued to other circles; *South Coimbatore* alone issued 256 sacks.

(*c*) *Operations for the improvement of the growing stock.*

20. *Improvement fellings—South Canara.*—780 acres. *The Nilgiris.*—400 acres in Block I Mudumalai, limited to removal of unsound, dead and dying trees. *Central Coimbatore.*—Burnt coppice cut back in three burnt coupes of Bolampatti Range. *South Coimbatore.*—136 acres in Punachi Working Circle. *Tinnevelly.*—Coupe VIII (*c*) Nadgani.

Thinnings—South Canara.—30 acres in Parappa teak plantation, cost Rs. 60. *South Malabar.*—584 acres teak plantation thinned and dead saplings taken out of 267 acres; cost including other works, Rs. 704. *North Coimbatore.*—Coppice shoots in Ennamangalam were thinned. *Tinnevelly.*—Coupes XI, XII Kalakad were partly thinned.

Fencing.—South Malabar—Wire fence round exotics in Aravillikava repaired, Rs. 37; mahogany avenue plants in Karimpoya fenced Rs. 10.

Creeper cutting—South Canara.—730 acres, Rs. 785. *North Malabar.*—3,000 acres in Kurichiyat cleared; cost Rs. 150. *South Malabar.*—1900 to 1903 plantations, Rs. 481; also much done by establishment free of charge in several districts; details of area or number of creepers cut not available.

Removal of parasites—South Malabar.—517 acres of plantations gave 2,595 cubic feet parasites, cost Rs. 183.

Pruning—South Malabar.—1908 plantation and 65 acres of 1907 plantation; Rs. 133.

Removal of noxious growth—North Malabar.—Lantana uprooted over 101½ acres of plantation; cost Rs. 370. *South Malabar.*—Undergrowth removed in 584 acres to facilitate marking for thinnings. *North Coimbatore.*—The removal of spiked sandalwood trees continued. *Central Coimbatore.*—2,064 acres cleared of prickly-pear, cost Rs. 6,740; various methods of preventing regrowth tried; the cleared area must be carefully watched for the next twelve months. *South Coimbatore.*—Lantana removed from waterfall plantation and Tekadi Compartment II; part of the work done by the young elephants.

(*d*) *Experiments.*

(1) *On species.*

21. *Swietenia Mahogani.*—In *South Canara*, a number of trees at Herur were wilfully cut down, offender undetected; 299 trees remain in various parts of the district and are doing fairly well. In *South Malabar*, 306 plants survive and are doing fairly well. In the *Nilgiris*, the seedlings referred to last year are being planted out in Benne tuckle areas. In *South Coimbatore*, seedlings put out at Mount Stuart did well at first, but died off during the hot weather.

Swietenia macrophylla is now established and reproducing freely in South Malabar; it has passed the experimental stage. The large tree in Chatamborai added $1\frac{1}{2}$" to its girth during the year and yielded one pound of seed.

Ceara rubber and Para rubber.—No new sowings or plantings were made; trees in existence are being watched, but there is now no need for experimenting with these trees.

Landolphia florida and *Kicksia africana* continue to thrive in South Malabar.

Cedrela odorata continues to thrive at Nilambur and Coimbatore; it failed at Kodaikánal and Ootacamund; evidently the elevation was too great for it.

Bamboos of different kinds are doing fairly well in the West Coast districts.

Catalpa speciosa, a much recommended importation from America, has not proved a success though tried in various climates at various elevations.

Camphor is doing well at Coonoor and Kodaikánal; in time this may help to develop a local celluloid industry. Mr. J. S. Gamble, C.I.E., kindly sent out a further consignment of English seed—oak, beech, sycamore and horse-chestnut which have germinated fairly well on the Nilgiris, but the horse-chestnuts died after being transplanted.

Araucaria Cunninghamii (the hoop pine) seed was received from Australia and sown late in the year.

Except in parks and botanical gardens, sufficient attention cannot be paid to a few isolated exotic specimens; no plantations of new exotics on a large scale were undertaken except that the pine plantations on the Palnis were extended, and arrrangements were made in the Nilgiris to form plantations of nine varieties of timber-yielding *Eucalyptus* at different elevations in order to determine which species is best suited to each locality.

(ii) *On other points.*

22. The Imperial Forest Economist from the Imperial Research Institute, Dehra Dun, visited the circle during the year to investigate the prospects of developing a bamboo paper pulp industry and some useful figures of the actual outturn of bamboo per acre were collected for him in the West Coast districts. Very little progress was made in the experiment to determine the upward growth of teak stems in *South Malabar*, owing to there being no District Forest Officer for that district for most of the year; the first series of observations was taken by Mr. Wimbush, prior to his transfer to Salem.

The proposal to carry out experiments to determine the effect of reafforestation on rainfall was negatived by Government.

Experimental areas to test the effect of firing on the grass and tree growth were maintained in *North* and *Central Coimbatore*; the area in *Madura* was found to have been badly selected and the experiment has to be commenced *de novo* in a new site. No definite results can be expected for another two years. Leaf silos were constructed in Madura, but were not opened during the year; the results will be available next year.

5. EXPLOITATION.

(*a*) SYSTEM OF MANAGEMENT.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

23. In *South Canara*, 3·74 acres in Tannirbhavi reserve were sold standing for clear felling casuarina. In *South Malabar* 136·36 acres in Coupe III of Karimpoya reserve were clear felled for the formation of 1910 teak plantation. In *South*

Coimbatore 15 acres in Coupe XII of Amarampallam and 10 acres in Tunacadavu reserve near Karian-shola were felled for planting; bamboos were removed from two acres in the latter locality to help regeneration.

(2) *Selection Fellings.*

24. Selection fellings were carried out in Coupes VIII of Mudibare and VII of Someshwar covering 453 acres in *South Canara*; in 550 acres of coupe VII of Begur and 200 acres of coupe X of Chedleth range in *North Malabar*. In *South Malabar* 310 teak trees in block II of New Amarampalam were marked, felled and converted into 416 logs of 13,768·85 cubic feet. In the *Nilgiris* sandalwood trees which yielded 284 maunds were felled in Segur range. Spiked and dead sandalwood trees were removed from Bailur Working Circle in *Kollegal*. In *North Coimbatore* sandalwood trees were extracted from 11,976 acres in Gutialattur, Talamalai and Burgur Working Circles; 303 acres in Talamalai and two coupes (area not given) in Chickalli were felled for extraction of agricultural implements; bamboos were extracted from nine coupes of 20,869 acres. In *South Coimbatore*, selection fellings were completed in compartment XVI of Tekadi leased forest and carried out in part of XVII. Trees were selected and marked in Punachi Coupe II and a portion of the coupe was felled. In *Madura* 220 trees were marked and felled in Vannathiparai and Kumili forests.

(3) & (4) *Improvement and Coppice Fellings.*

25. *South Canara.*—Eight coupes covering 361 acres were coppiced in Coondapur Range. Eighty-six acres in Udipi Range were felled to supply fuel to 186 sandalwood oil stills. *North Malabar*—A coupe of 10 acres in Kanoth reserve was felled for supply of fuel to Tellicherry town. *South Malabar*—In the teak plantations 4,314 trees were removed in thinnings, also 75 dead, wind-blown or uprooted trees; teak and other saplings were felled to free the mahogany (*Swietenia macrophylla*) in Karimpoya plantation; 140 teak trees were coppiced in Valluvasheri 1888. The *Nilgiris*—Improvement felling was carried out over 400 acres containing chiefly teak in Mudumalai Range. Thirty acres of blue-gum plantation in Ootacamund and a similar area in Coonoor were coppiced for supply of fuel to the public and Wellington barracks. *North Coimbatore*—Nine fuel coupes were coppiced. *Central Coimbatore*—Fifteen fuel coupes were worked under coppice with standards. *South Coimbatore*—Improvement felling was carried out over 136 acres in Coupe I Punachi; 51 acres in Pollachi Range and 245 acres in Udumalpet were coppiced. *Madura*—32 coupes covering 3,311 acres and 15 tank-beds were coppiced. Details of areas coppiced are not reported by *Kollegal* and *Tinnevelly*.

(5) *Unregulated Fellings.*

26. In *South Canara*, 150 cinnamon oil stills were worked, the firewood required being felled on unreserved lands on payment. In the *Nilgiris*, the system of issuing permits for removal of inferior timber, fuel, bamboos, etc., for local consumption continued. In *Kollegal*, *North Coimbatore* and *Central Coimbatore*, small timber and bamboos, and brushwood and twigs from felled coupes were removed by permit holders.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

27. Minor produce was generally leased out with the following exceptions. In *South Canara*, catechu was manufactured departmentally. In *Kollegal* and in parts of *North Malabar* and *North Coimbatore*, miscellaneous produce was collected departmentally. In *Madura*, thatch grass, thorns, manure leaves (except in two ranges) and stones in reserved forests were removed on permits.

(2) *Extraction of Fodder.*

28. The free removal of fodder grass from all reserves in *South Canara* continued; the ryots availed themselves of the privilege freely and no abuse was brought to notice. Permits were issued for the removal of grass in the *Nilgiris* and *Madura*. In *Tinnevelly*, grass is included in the leases for minor produce.

(3) *Hay making.*

29. In *South Canara*, about 10 tons of hay were manufactured in Coondapur Range at a cost of Rs. 60 and used for feeding Government bullocks. In the *Nilgiris*, about 13 tons of grass were collected for making hay on an experimental scale at Anaikatti farm. The experiment was subsequently dropped as it appeared that the attempt to supply Ootacamund with hay would result in loss One hundred and eighty two tons of hay were made in *Central Coimbatore*; with the last year's outturn there is a large quantity in stock. The quality of this hay was pronounced to be good on trial and analysis at the Agricultural farm at Coimbatore There was neither local demand for hay nor could good sales be effected at a cattle show at which an attempt was made to advertise it.

(4) *Grazing.*

30. Grazing was regulated by issue of permits either for individual forest, block or working circle, except in the Nilgiris where grazing blocks have not yet been formed. Enquiries are in progress in all districts regarding the grazing demand and the grazing possibility of the forests. Goats are excluded from reserves in all districts except Madura. No means have yet been devised whereby the incidence of grazing can be diminished without an increase in cost to the cattle owners.

(*b*) Outturn and sources of Forest Produce.

31. The outturn of timber and other produce collected by different agencies during the year is compared with that of the previous year in the following abstract:—

Agency of exploitation.	Timber including sandalwood in cubic feet.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce including grass and grazing in rupees.	
	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.
By Government agency ..	308,527	407,308	3,345,017	2,986,504	97,671	105,810	32,285	37,307
By purchasers	509,613	456,977	3,340,698	2,997,585	4,027,503	4,982,721	2,63,427	2,70,589
By right holders	77,566	92,635	188	106	900	2,775	828	1,081
By free grantees	8,418	14,023	22,243	3,645	15,025	2,400	1,065	820
Total ..	904,124	970,943	6,708,146	5,987,840	4,141,099	5,093,706	2,97,605	3,09,797

The quantities except those referring to removal by Government Agency, are arrived at by a rule of thumb conversion of rupees into cubic feet or number; no more correct method is possible without a very large checking establishment. The increase under timber was chiefly in *South Coimbatore*; the decrease under fuel was chiefly in *South Canara* and was due to an abuse of the permit system of removals from unreserved lands which has now been put a stop to; the increase under bamboos occurred in *Kollegal* and *South Coimbatore.*

(*c*) Agency of Exploitation.

(i) *By Departmental Agency.*

32. Apart from the items mentioned in paragraphs 27 and 29 the chief works done departmentally were:—

Major produce—South Canara.—Felling of one timber and three fuel coupes. *North Malabar*—Felling 6,427 cubic feet of timber, and carting 17,283 cubic feet by Government bullocks and 1,674 cubic feet by hired bullocks; extraction of 3,475 bamboos; felling of 10 acres for supply of fuel to Tellicherry town. *South Malabar*—Thinning of plantations, dragging timber to the river bank by elephants and buffaloes and floating to Beypore. The quantity of timber floated to Beypore was 54,408 cubic feet of teak logs and 9,741 cubic feet saplings, and 66 cubic feet of miscellaneous logs. *The Nilgiris*—The exploitation and transport of produce in the Nilgiri-Wynaad. *Kollegal and North Coimbatore*—Felling of fuel coupes and extraction of sandalwood and bamboos; fuel was sold to contractors in the coupes. *Central Coimbatore*—Felling of four fuel coupes for supply of fuel to the Coimbatore depot. *South Coimbatore*—Marking and felling timber in Tekadi and Punachi, dragging,

tramming and carting timber and felling fuel coupes; fuel felled in two of the coupes was sold to contractors in the forests. *Madura*—Six fuel coupes covering 1,364 acres were felled. *Tinnevelly*—Supply of fuel to the Tinnevelly jail. Whenever purchasers could be found areas to be felled were sold standing, and when departmental felling had to be resorted to, the felled produce was when possible sold in the forest. No fuel depots were established at the edge of the forest, as this entails double carting expenses and would result in a rise in the price of fuel. As regards timber no new depots were established, but the existing ones were maintained. In *Tinnevelly*, there are no departmental sale depots in towns; in *Madura*, there is one. In *South Coimbatore*, there are depots at Udamalpet, Pollachi and Anamalai which are much appreciated by the inhabitants, and must be maintained for some time. In *North Coimbatore* and *Kollegal*, most of the town fuel depots were leased to contractors.

Minor produce.—Seventeen tons of catechu were manufactured; the revenue realized was at an average rate of Rs. 678 per ton against Rs. 725 in the previous year, the fall being due to limited competition. The total outturn of minor produce was 434 tons against 277 tons in the last year; the increase was mainly due to a larger quantity of hay made in *Central Coimbatore*.

(ii) *By purchasers.*

33. In *South Canara* fuel coupes were sold standing and the depot at Mangalore was leased out to a contractor. In *North Malabar*, Coupe VII of Begur and IX of Chedleth were sold standing. In *South Malabar*, the clear felling of Coupe III of Karimpoya reserve was done on contract. In the *Nilgiris*, coppicing blue-gum plantations and transport of fuel were carried out on contract, the department maintaining only a few carts to regulate the rate for carting. Nine bamboo coupes in *North Coimbatore* and 12 fuel and 6 bamboo coupes in *Central Coimbatore* were sold standing. In *Madura*, 220 trees in Cumbum Range, 26 fuel coupes and the growth on 15 tank beds were sold standing. All coupes in *Tinnevelly* were sold standing and permits were issued for babul wood for agricultural implements.

(iii) *By Right holders and under Privileges.*

34. The estimated value of produce and grazing enjoyed was Rs. 37,809 against Rs. 31,590 in the previous year. Except in South Canara, no attempt has been made to assess the value of produce removed under the privilege allowed by the rules under section 26 of the Forest Act. The value of fuel consumed by Badagas in the Nilgiris on payment of a nominal fee of 1 rupee per house was considerable, but is not included in the valuation, as details are not available.

(iv) *Under free grants.*

35. The value of the forest produce granted free was Rs. 4,636 (Timber Rupees 3,579, fuel Rs. 206, bamboos Rs. 31 and minor produce Rs. 820) against Rs. 3,407 in the last year. Grants amounting to Rs. 2,120 were made to religious institutions and the balance was chiefly for rebuilding houses burnt by fire.

CHAPTER III.—FINANCIAL RESULTS.

36. The financial results of the year are compared with those of last year and with the previous quinquennial average in the following table:—

——	1909-1910.	1908-1909.	Average of preceding five years.
	Rs.	Rs.	Rs.
Revenue	11,41,598	11,15,611	9,12,015
Expenditure—			
A.—Conservancy and Works including "Refunds."	6,30,631	5,36,155	5,12,890
B.—Establishments	3,98,620	3,64,993	3,10,962
Total expenditure ..	10,29,251	9,01,148	8,23,852
Surplus ..	1,12,347	2,14,463	88,163

The year's revenue rose by 2·3 per cent. and the expenditure by 14 per cent.; the net revenue was 9·8 per cent. of the gross receipts. Of the expenditure 38·4 per cent. was devoted to the upkeep and improvement of the forests, 35 per cent. to exploitation and 26·6 per cent. to miscellaneous items. Expenditure was abnormal owing to the payment of Rs. 1,02,951 for the acquisition of forest in the Attapadi valley in the interests of wet cultivation under the Bhavâni river. The value of timber and other produce at the sale depots at the close of the year amounted to Rs. 2,52,156 which was Rs. 1,08,912 less than it was at the commencement of the year. The outstanding balance at the close of the year was Rs. 1,10,105, of which Rs. 26,279 only fell due within the year.

The explanation of the more important differences between the figures of the year and those of the previous year is as follows :—

RECEIPTS.

(i) *By Departmental Agency.*

Timber — Rs. 39,688 — Due chiefly in *North Malabar* to the sale of only a small quantity of timber, the stock in hand having been sold in the previous year and in *South Coimbatore*, to a large stock of timber remaining unsold for want of good prices and to the slack demand for spokes and felloes.

Fuel + Rs. 9,850 — Due mainly to the increased demand from tile factories in *South Canara* and to the increase in the rates for supply of fuel to the Mills and sale to the public in *Madura*.

Sandalwood + Rs. 17,309 — Due to the realization of value of stock remaining unsold from the previous year at the home market.

(ii) *By Purchasers.*

Timber + Rs. 10,810 — Due chiefly to the increased price realized for sale of coupes standing in *North Malabar* and to better prices realized for timber in *Madura*.

Fuel + Rs. 11,269 — Due to the much better prices realized by sales of the tank-beds in *Madura* and the fuel coupes in *Tinnevelly*.

Grazing + Rs. 5,184 — Due chiefly to increased collection in *South Canara* on account of a large cattle fair held during the year and to the opening of a larger area for grazing in *Tinnevelly*.

EXPENDITURE.

A.—Conservancy and works.

The expenditure exceeded that of the previous year by Rs. 94,476 and was due chifly (*a*) to the purchase of Anaikatti farm buildings in the *Nilgiris*, (*b*) to the payment of compensation for the acquisition of lands in the Attapadi valley, (*c*) to the extension of pine plantations in *Madura*, and (*d*) to the eradication of prickly-pear from several coupes in *Central Coimbatore*.

B.—Establishment.

The increase of Rs. 33,627 was due mainly to (1) increments to Imperial Officers according to the time scale of pay, (2) posting of an officer to Central Coimbatore, (3) the appointment of a Special Deputy Collector with establishment for investigating certain forest questions in *Madura*, (4) the introduction of the revised scale of Deputy Rangers and Foresters, (5) the employment of the staff of Accountants and of establishments for two additional District Forest Offices throughout the year, (6) the entertainment of temporary establishments for sorting records in *Tinnevelly* and (7) increased touring expenses.

CHAPTER IV.—ADMINISTRATION.

37. Mr. F. A. Lodge was in charge of the circle throughout the year.

District Charges.—No new charges were formed. The Attapadi Blocks I to VI and the whole of Nilgiri Eastern slopes were transferred from South Malabar and North Coimbatore to Central Coimbatore and the Nilgiris respectively.

Range Charges.—No new ranges were sanctioned, but effect was given to the formation of two additional ranges (Sankaranarayana and Kasaragod) in South Canara, one (Burgur) in North Coimbatore and one (Punachi) in South Coimbatore sanctioned in previous years. It was, as usual, impossible to keep the ranges properly manned owing to the large number of Rangers absent on sick leave; as stated last year, a margin of Rangers over the number of ranges is absolutely necessary.

Establishment.—An increase in the subordinate forest establishment was sanctioned and by the new scale which was brought into effect from 1st November 1909, the number of Deputy Rangers and Foresters was raised to 35 and 62 respectively and 73 posts of guards were transferred from temporary to permanent establishment. The status of the District Forest Office, South Malabar, as regards pay of clerks, was raised, and the pay of the clerks on Rs. 15—1—20 and Rs. 15 per mensem in the Conservator's and District Forest Offices was raised to Rs. 20.

Conduct and work.

38. *Executive establishment.*—Rangers Kuppusami Chetti, Littlewood, P. Venkatramanan, D'Sa and Garudachala Mudali are specially mentioned for good work and 13 Rangers are reported to have worked satisfactorily. One Ranger resigned, one was reduced temporarily, one suspended, one reverted to clerical establishment and the promotion of three was barred. The work of Deputy Rangers is reported to be generally satisfactory and one in charge of a range is specially mentioned for satisfactory work. Two Deputy Rangers were suspended, one of whom was also reduced for drunkenness, and one was reduced to the class of Forester. One Deputy Ranger was prosecuted for misappropriation and falsification of accounts but was acquitted. Cases of laziness and neglect of work had to be dealt with leniently, owing to there being no reserve of men to take the places of those who deserved suspension.

39. *Protective establishment*—The standard of efficiency and morality in this class continued to be low and much improvement cannot be hoped for until the staff can be more closely supervised by competent Rangers. Ninety-nine men were removed from service, 49 suspended, 14 reduced. Two Foresters and one guard were prosecuted for conniving at illicit fellings and two guards for extortion; the case against one guard was pending at the close of the year and the rest were acquitted.

40. *Ministerial establishment.*—The absence of prospects on the circle list of Head Clerks and Accountants coupled with heavy work and constant working overtime renders the recruitment of qualified and suitable candidates impossible. Work was satisfactory in all the offices except *Kollegal*, and *Central Coimbatore*; the backward state of the two excepted offices is due to inefficiency of clerks. The *Tinnevelly* office has improved and is working satisfactorily. One clerk in *Kollegal* and one in *North Coimbatore* resigned; one in *North Coimbatore* was removed from service for incompetency and one in *Tinnevelly* was reduced for bad work. The draftsman of the *Central Coimbatore* office was prosecuted for theft of records and instrument box and the prosecution was pending at the close of the year.

41. *Health of establishment and casualties.*—The health of the establishment was bad in all districts except *Kollegal*, *North Coimbatore*, *Madura* and *Tinnevelly*. The subordinates suffered as usual from malaria and jungle fever. Casualties were one Forester and one guard in *South Canara*, one guard *North Malabar*, one Ranger and one watcher *South Malabar*, one guard the *Nilgiris*, one guard and one watcher *Central Coimbatore* and one Deputy Ranger and one guard *South Coimbatore*. One Ranger in *South Coimbatore* committed suicide, and one watcher was murdered in *Madura* while impounding cattle found illicitly grazing; the murderers are reported to have been convicted.

42. *Relations between Revenue and Forest Officials* continued to be cordial. The reports of the *Nilgiris*, *Central* and *South Coimbatore* do not furnish information regarding the attendance of Forest Officers at jamabandi; such attendance is not required in *South Malabar* and was carried out in other districts except *Kollegal* and

Tinnevelly; in *Kollegal* the jamabandi programme was not received by the District Forest Officer and in *Tinnevelly* questions on forest matters were settled as they arose. In *North Coimbatore*, the Collector as a result of his enquiry into the complaint against the distribution of grazing blocks on the Burgur hills amalgamated three such blocks into one; a report on this has since been called for by the Board. No important points were raised in other districts.

43. *Service books* are maintained in all districts; in the *Nilgiris* they are verified to the close of the calendar year, in *Malabar*, *Kollegal*, *North* and *South Coimbatore* to the close of the financial year, in *South Canara* to the close of the forest year, in *Central Coimbatore* and *Madura* they are "posted" and "verified", the date up to which they have been posted or verified not reported; in *Tinnevelly* they are verified up to date.

44. *Tours of the Forest Member.*—No record of tours is contained in the district reports. The Hon'ble Mr. W. O. Horne visited the Anamalai forests in *South Coimbatore.*

45. *Conservator's Inspections.*—The Conservator inspected all the District Forest offices and the forests of *South Canara*, the *Nilgiris* and *Central Coimbatore* and part of the forests of the remaining districts except *Kollegal* and spent 186 days in camp during the year.

46. *Touring of District Forest Officers.*—All the District Forest Officers except the *Nilgiris* (exempted), *South Malabar*, *Central* and *South Coimbatore* spent more than six months in camp. The short touring in *South Malabar* was due to the charge being held by the District Forest Officers of the Nilgiris and North Malabar for about five months and in *Central Coimbatore* to a separate Officer being posted only from the latter part of October; in *South Coimbatore* the deficiency amounted only to three days.

47. *Inspection of Range Offices.*—All the Range Offices except those newly formed during the year, and depots were inspected.

48. *Audit of accounts of District Forest Offices.*—The Local Fund Audit establishment audited the accounts of all the offices except *Kollegal* and the results were reported to be generally satisfactory.

49. *Imperial Forest College, Dehra Dun.*—One nominee to the Provincial Service and one Deputy Ranger were deputed for training; two Government students returned from the College with Rangers' certificates with honors.

50. *Vernacular Training School for Guards and Foresters.*—The second session of this school was held during the year in *North Coimbatore* with 32 students (six Foresters and 26 guards). One Forester resigned, one guard was removed from the school and one Forester and three guards deserted and were dismissed. Instructions were given according to the approved programme. Of the 26 students who remained at the close of the session, 20 secured first class and 5 second class certificates; one guard who was absent for half the course was not given a certificate. The Instructors are reported to have done useful work.

51. *Work and services of superior officers.*—With the exception of *Tinnevelly*, Collectors have not remarked on the work of their District Forest Officers. *Mr. R. W. Ashe*, Collector of Tinnevelly, remarks "The little I have seen of Mr. Latham's work supports the high opinion of his energy and devotion to his work which Mr. Davidson expressed to me." The Conservator endorses this opinion. Messrs. P. M. Lushington, Bryant and Cox worked with their usual energy throughout the year; Mr. Richmond returned from leave in October and did well with two heavy charges and the Vernacular Training School; Mr. Foulkes was hampered by ill-health for part of the year and was in charge of both North and South Malabar; Mr. Fischer took much trouble over arranging preliminaries for the local Forest College; Mr. Barry has shown interest in improving the sylvicultural conditions of the South Canara forests but did not take kindly to the work of checking the South Canara-Mysore boundary; Mr. Wimbush did good work during the few months he was in charge of South Malabar; the work of the Imperial staff was distinctly satisfactory. The Provincial officers also worked well.

CHAPTER V.—GENERAL.

52. *Realization of revenue from the usufruct of toddy-yielding trees, etc.*—The subject is not mentioned in the reports of *North Malabar* and the *Nilgiris*; amounts realized in *South Malabar*, *Kollegal*, *South Coimbatore* and *Madura* were very small. In *Central Coimbatore*, such trees are found in four reserved forests; their usufruct in three was leased out for a decade and in the fourth for a year; the amounts of the leases are not given in the district report. The revenue collected in *South Canara* and *Tinnevelly* was Rs. 3,579 and Rs. 3,442, respectively, against Rs. 3,369 and Rs. 3,355 in the last year.

53. *Measures adopted to encourage the growth of manure-leaf-yielding trees and shrubs.*—The only districts in which action was taken in this matter are *Madura* and *Tinnevelly;* the results of operations in these districts are detailed in paragraph 19 *supra.* No measures are required in other districts where the required supply is met from private forests and unreserved lands. It is not known what steps the Agricultural Department has taken to encourage cultivators to grow leaf manure on their own lands.

54. *Supply of forest produce to meet the wants of the people.*—In *South Canara*, a portion of the Baindur reserve was as usual thrown open for free removal of grass and leaves and the privilege of free removal of thatching grass used also occasionally as fodder from all reserves was continued, the ryots are said to have availed themselves freely of the privilege. The local demand in *Malabar* was met from unreserved lands and private forests. In the *Nilgiris* permits were issued for small timber, fodder and minor produce; the Badagas were as usual given permits for fuel for an annual fee of Re. 1 per house, but the value of produce consumed must be at least Rs. 50 per house. In *Kollegal* and *North Coimbatore* small timber and agricultural implements were sold from depots, fuel felled departmentally was disposed of in forests to contractors who as one of the conditions of sale were to open depots and retail at fixed rates, and permits were also issued for removal of brushwood from felled coupes; village fuel coupes were also opened in two localities in *Kollegal* and felling was done departmentally and permits issued to consumers, but the demand is reported to be very small. Fuel was supplied to the public in *South Coimbatore* from depots and through contractors. Coupes were opened in different places in *Madura* to meet the requirements of the neighbouring villages for fuel and small timber for agricultural implements; the depot in *Madura* supplied adequately the increasing demand for fuel in the town. The sale of timber for agricultural implements at seigniorage rates from babul areas was continued in *Tinnevelly*.

Rules under the Forest Act.

55. (*a*) *Timber Transit rules.*—These rules are reported to have worked satisfactorily in *South Canara*, *Central* and *South Coimbatore* and *Madura*. They were sanctioned for *Kollegal* and *North Coimbatore* and not brought into force till after the close of the year.

56. (*b*) *Rules under section* 26 *of the Forest Act.*—No reference is made to the working of these rules in *Kollegal* and *Central* and *South Coimbatore*. In *Madura* the people are said to be still ignorant of the extent of the privileges allowed by the rules. In the other districts the rules worked satisfactorily. The areas of unreserved lands under the control of the Forest Department were 490 acres in *North Malabar*, 863 acres in *South Malabar*, 278 acres in *Central Coimbatore* and 300 acres in *Madura* and the lands containing sandal growth in *North Coimbatore* and tank-beds in *Tinnevelly* (extent of both not reported).

57. (*c*) *Other rules.*—Rules for the regulation of shooting in *Kollegal* and *North Coimbatore* were sanctioned during the year. The working of the sandalwood rules in these two districts has not been mentioned, but they appear to have worked smoothly.

58. *Hill Tribes.*—Leases (number and extent not reported) granted free of rent in *Kollegal* in previous years to hill tribes for cultivation in reserved forests and eleven similar leases covering 281 acres in *North Coimbatore* were continued.

59. *Cultivation in reserved forests.*—In *South Canara* tenant-at-will leases covering 15 acres for paddy cultivation on an annual rent of Rs. 17-4-11 were granted. Four acres in old Amarampalam reserve in *South Malabar* were leased out for a similar purpose on an annual rent of Rs. 10. Seven leases covering 47 acres were continued to the Sholagars in *North Coimbatore* on payment of rent (amount not reported). Leases according to the revised rules for all the estates on the Anamalais in *South Coimbatore* were issued to the lessees for signature and their registration was pending.

LIVE AND DEAD STOCK.

60. (*a*) *Elephants.*—Elephant capturing operations were carried out in *North Malabar*, *South Malabar* and *South Coimbatore*, and the numbers captured were 12, 1 and 1, respectively; one was born in captivity in *North Malabar*. Thus the total number of elephants in the circle increased to 105. Of these, two (one newly captured calf and the other born in captivity) died, one escaped and joined a herd of wild elephants and was shot accidentally in the endeavour to recapture it, one was presented to the Madras Corporation and five were sold, leaving 96 at the close of the year. There was no mortality among the old elephants and the condition of all elephants was satisfactory. Two mahouts who were injured by a wild tusker while attempting to recapture the escaped elephant above referred to were granted a reward of Rs. 10 each. Eight mahouts whose elephants were not on the sick list for more than three days at a time or more than twelve days in all in the previous year were granted rewards in the shape of from one to three rupees worth of grain.

(*b*) *Bullocks and buffaloes.*—Of the 130½ pairs of bullocks at the commencement of the year, 6 pairs died and 14 pairs were sold, one pair was purchased, making a balance of 111½ pairs. Except in one case, all deaths were due to old age. Three buffaloes died and three were sold, ten pairs were purchased for Rs. 986; there were 34 buffaloes at the close of the year.

(*c*) *Special Veterinary Inspector.*—Mr. F. X. Mascarenhas visited all the stations where there is live-stock; he inspected also the elephants in Coorg and instructed the Veterinary Assistant as to their feeding and treatment. Numerous minor operations for abscess, tumour and sinus on elephants and bullocks were performed, and attention was paid to the feeding and housing of live-stock.

(*d*) *Inventory of valuable stock.*—Stock registers are reported to have been maintained and verified in all districts except *Kollegal* in which no mention is made of this subject.

61. *Rain gauges.*—No mention is made of these in the *Nilgiris*. The readings of the gauges in other districts are reported to have been properly recorded and the results are given in Appendix J.

62. *The Gass Forest Museum at Coimbatore.*—The museum was open to the public as usual; owing to the continuance of plague at Coimbatore the hours of admission to visitors was changed to 3-5 P.M. for about 7½ months from 5th August 1909. There were 7,362 visitors against 6,339 in the previous year. Six hundred and twenty-five specimens were contributed to the museum, and several ornaments and implements of jungle tribes were presented by the Jeypore State. The museum is now overcrowded and an extension is much needed. The museum garden was maintained and Rs. 162 realised by sale of fruit, flowers, vegetables and plants.

63. *The Bryant Park Reserve at Kodaikánal.*—The park was opened by the Hon'ble Mr. C. J. Weir, I.C.S., on the 6th September 1909 and has been much improved during the year; the nurseries in the park are well stocked with pine seedlings to be used in extending the pine plantations on the downs.

64. *Suits.*—In Tinnevelly, the Kuttalam waterfall appeal was pending and the other suit referred to in the last report was decided in favour of Government.

CONSERVATOR'S OFFICE,
SOUTHERN CIRCLE,
Coimbatore, 30th September 1910.

F. A. LODGE,
Conservator of Forests,
Southern Circle.

APPENDICES.

TABLE OF CONTENTS.

		PAGE.
Appendix A.—	District areas and forest reserves	i
Do. B.—	Reserved forests in square miles	ii
Do. C.—	Particulars of balance of lands under settlement ...	iii to v
Do. D.—	Causes of delay in the submission of final notifications of forest reserves	vi
Do. E.—	Reserved lands not under settlement in square miles ...	vii
Do. F.—	Abstract of district reports in regard to the maintenance of maps	viii
Do. G.—	Statement showing the area of reserved forests for which final maps have been prepared	ix
Do. H.—	Abstract of fires	x & xi
Do. I.—	Comparative statement of impounded cattle	xii
Area of reserved forests and reserved lands (No. 65)		xiii to xx
Progress made in, and the expenditure incurred on, forest settlements (No. 66)		xxi to xxvii
Record of demarcation and maintenance of boundaries (No. 67) ...		xxviii
Forest areas surveyed and under survey (No. 68)		xxix & xxx
Progress made in working plans (No. 69)		xxxi & xxxii
Communications and buildings (No. 70)		xxxiii to xlv
Register of breaches of Forest Rules (No. 71)		xlvi to lv
Appendix to Form No. 71		lvi to lviii
Area of forest tracts protected from fire (No. 72)		lix to lxxx
Areas open and closed to grazing (No. 73)...		lxxxi
Statement of grazing in reserved forests and reserved lands (No. 74) ...		lxxxii to lxxxvi
Area of plantations, taungya and cultural operations (No. 75)		lxxxvii & lxxxviii
Statement showing the outturn of timber and firewood and agency of exploitation (No. 76)		lxxxix to cv
Outturn of minor forest produce (No. 77)		cvi & cvii
Account of timber, etc., in depots and sold locally (No. 78)		cviii to cxi
Abstract showing the value of timber and other produce at depots (No. 79)		cxii to cxvi
Summary of revenue and expenditure (No. 80)		cxvii to cxxv
Abstract of the above prepared in the Board's office		cxxvi & cxxvii
Outstandings and liabilities on account of contractors and disbursers (No. 81)		cxxviii
Revenue received and outstandings on account of revenue (No. 82) ...		cxxix
Statement of financial results (No. 83)		cxxx
Return of elephants (No. 84)		cxxxi to cxxxiii
Abstract showing the value of live-stock, stores, tools and plant (No. 85).		cxxxiv to cxxxvii
Statement showing the results of transport of wood by tramways compared with the transport by carts (No. 86)		cxxxviii to cxlii

APPENDICES.

APPENDIX A.—District areas and Forest reserves (1909–1910).

District.	(a) Total area excluding feudatory and tributary States.	(b) Area excluding zamindari, whole inam villages and minor inams in ryotwari tracts.	(b) Occupied area.	Particulars of remaining area (columns 3—4).			Reserved forests and reserved lands.			Percentage of column 10 to column 3.	Percentage of column 10 to column 7.
				(b) Unoccupied cultivable, uncultivable and forest areas.	(a) Areas for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves (columns 8 and 9).		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.		
Ganjám	5,356,224	1,609,462	415,082	708,325	486,055	1,194,380	383,067	72	383,139	23·80	32·08
Vizagapatam	11,022,478	849,907	199,699	650,208	..	650,208	190,862	2,625	193,487	22·88	29·76
Gódávari	3,669,383	1,848,091	580,765	1,257,986	9,340	1,267,326	534,438	47,955	582,393	31·51	45·95
Kistna	3,784,842	1,675,918	1,019,683	635,003	21,232	656,235	178,231	12,229	190,460	11·36	29·02
Kurnool	4,808,960	4,100,605	1,814,375	2,786,230	..	2,786,230	1,689,701	..	1,689,701	41·21	60·64
Bellary	3,646,039	2,980,358	1,700,179	1,280,179	..	1,280,179	399,447	41,792	441,239	14·80	34·47
Anantapur	3,556,083	3,025,409	1,263,260	1,762,149	..	1,762,149	341,936	18,527	360,463	11·91	20·46
Total ..	35,844,009	16,089,750	6,493,043	9,080,080	516,627	9,596,707	3,717,682	(d) 123,200	3,840,882	23·87	40·02
Central Circle.											
Cuddapah	5,582,739	4,871,596	1,449,215	3,422,381	..	3,422,381	1,502,136	620	1,502,756	30·85	43·91
Nellore	5,097,300	2,317,494	946,810	1,370,684	..	1,370,684	471,724	..	471,724	20·35	34·42
Chingleput	1,971,041	1,305,741	667,321	638,420	..	638,420	136,566	67	136,633	10·46	21·40
North Arcot	4,721,846	2,509,479	915,694	1,593,785	..	1,593,785	824,827	1,642	826,469	32·93	51·86
South Arcot	3,339,520	2,991,972	1,721,950	1,270,022	..	1,270,022	426,274	..	426,274	14·25	33·56
Salem	4,818,982	3,576,091	1,505,337	2,070,754	..	2,070,754	1,024,346	33,080	1,057,426	29·57	51·06
Trichinopoly	2,330,509	1,713,442	1,135,408	578,034	..	578,034	179,150	3,286	182,436	10·65	31·56
Tanjore	2,375,387	1,584,828	1,150,250	434,578	..	434,578	12,461	358	12,819	·81	2·95
Guntúr	3,670,374	2,878,904	1,810,657	1,068,247	..	1,068,247	521,239	8	521,247	18·11	48·79
Total ..	33,907,698	23,749,547	11,302,642	12,446,905	..	12,446,905	5,098,723	39,061	5,137,784	21·63	41·28
Southern Circle.											
South Canara	2,573,389	2,573,389	762,555	1,810,834	2,054	1,812,888	558,083	72,873	630,956	24·52	34·80
Malabar	3,708,321	3,690,019	1,353,395	2,336,624	..	2,336,624	(c) 271,003	(c) 41,430	312,433	10·84	17·12
The Nilgiris	646,221	653,784	192,330	461,454	..	461,454	(c) 308,682	54,882	363,564	48·92	69·32
Coimbatore	4,989,867	4,557,986	2,512,163	2,045,823	..	2,045,823	(c) 1,353,362	(c)205,917	1,559,279	33·24	74·07
Madura	5,568,896	2,078,880	1,142,747	936,133	..	936,133	426,503	..	426,503	20·51	45·56
Tinnevelly	3,448,922	2,282,802	1,498,359	784,443	..	784,443	279,901	1,062	280,963	12·30	35·81
Total ..	20,935,616	15,836,860	7,461,549	8,375,311	2,054	8,377,365	3,197,534	376,164	3,573,698	22·56	42·66
Grand Total ..	90,687,323	55,676,157	25,257,234	29,902,296	518,681	30,420,977	12,013,939	5,38,425	12,552,364	22·55	41·26

(a) Area by professional survey. (b) Area according to village papers. (c) Corrected in the Board's office.
(d) Excludes 5,401 acres in the Parlákimedi Maliahs notified under section 26 of the Forest Act.

Appendix B.—Reserved forests in square miles.

District.	Up to 1908–1909.	During 1908–1909.	During 1909–1910.	Total.
1	2	3	4	5
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	598	(a)—	..	598
Vizagapatam	298	..	(a) +	298
Gódávari, Upper	428	..	..	428
Do. Lower	407	..	..	407
Kistna	278	(a)+	..	278
Kurnool, East	1,479	— 1	..	1,478
Do. West	1,079	+ 72	(b) + 11	1,162
Bellary	624	(a)+	(a) +	624
Anantapur	529	(a)+	6	535
Total ..	5,720	+ 71	+ 17	5,808
Central Circle.				
Cuddapah, North	735	..	..	735
Do. East	1,029	54	..	1,083
Do. South	529	..	..	529
Nellore	737	..	..	737
Chingleput	214	(b) — 2	1	213
Arcot, North	1,290	..	(d) — 1	1,289
Do. South	663	..	(b) + 4 (b) — 1	666
Salem, North	931	..	..	931
Do. South	670	..	..	670
Trichinopoly	313	(d) — 1	(b) — 41 (b) + 9	280
Tanjore	19	..	..	19
Guntúr	814	..	..	814
Total ..	7,944	51	— 29	7,966
Southern Circle.				
South Canara	847	23	2	872
Malabar, North	261	(c)	..	261
Do. South	196	..	(f) — 33	163
The Nilgiris	438	..	(h) + 44	482
Kollegal	..	472	1 (i) — 26	447
Coimbatore, North	1,333	(e) — 472 (f) — 16 (g) — 8	(h) — 44 (i) + 110	90
Do. Central	..	16 258	(f) + 33	307
Do. South	707	(f) — 258 (g) + 8	..	457
Madura	666	..	..	666
Tinnevelly	437	.. (c)	(c)	437
Total ..	4,885	23	+ 87	4,995
Grand Total ..	18,549	145	75	18,769

(a) Less than half a square mile.
(b) By correct computation of area.
(c) Below one square mile.
(d) Disafforested.
(e) Transferred to Kollegal.
(f) Transferred to Coimbatore (Central).
(g) Do. to Coimbatore (South).
(h) Do. to the Nilgiris.
(i) Rectification of area due to adoption of Survey of India figures.

APPENDIX C.—Particulars of balance of lands under settlement.

District.	Forest settlement.					
	Total number and area of blocks under settlement up to the end of 1909–1910.		Total number and area of blocks constituted finally as reserved forests up to the end of 1909–1910.		Balance at the end of 1909–1910.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	57	598	56	598	1	(d) ..
Vizagapatam	54	302	53	298	1	4
Gódávari, Upper	29	428	29	428	..	..
Do. Lower	44	482	43	407	1	75
Kistna	75	(e) 278	75	278	..	..
Kurnool, East	38	1,478	38	1,478	..	..
Do. West	64	1,162	64	1,162	..	..
Bellary	169	(a) 627	167	624	2	3
Anantapur	111	(e) 547	106	535	5	12
Total ..	641	5,902	631	5,808	10	(b) 94
Central Circle.						
Cuddapah, North	212	735	212	735	..	..
Do. East		1,083		1,083	..	..
Do. South		529		529	..	..
Nellore	226	737	226	737	..	..
Chingleput	199	214 (f) — 1	197	213	2	(d)
Arcot, North	192	1,292 (f) — 1	190	1,289	2	2
Do. South	157	663 (e) + 3	157	666	..	..
Salem, North	89	977	88	981	1	46
Do. South	92	676	90	670	2	6
Trichinopoly	123	317 (e) — 32	119	280	4	5
Tanjore	16	20	15	19	1	1
Guntúr	180	814	179	814	1	(d) ..
Total ..	1,486	8,026	1,473	7,966	13	60
Southern Circle.						
South Canara	176	878	171	872	5	6
Malabar, North	29	262	28	261	1	1
Do. South	6	208	5	163	1	45
The Nilgiris	435	482	432	482	3	(d) ..
Kollegal	13	705	10	447	3	258
Coimbatore, North	* 20	919	* 16	903	4	16
Do. Central	43	354	40	307	3	47
Do. South	17	457	17	457	..	..
Madura	150	666	150	666	..	..
Tinnevelly	88	439	72	437	16	2
Total ..	977	5,370	941	4,995	36	375
Grand Total ..	3,104	19,298	3,045	18,769	59	529

* One block shown in excess last year deducted.

(a) Excludes 63 square miles, Sandur leased forests.
(b) As per report this is 93, difference due to rounding of figures; the actual figure being 93·52.
(c) Correct computation of areas—*vide* foot-note to form 65.
(d) Below one square mile.
(e) Excludes reserve lands under section 26. (Kistna 19 square miles and Anantapur 17 square miles).
(f) Revision of area on account of disafforestation of small areas.

Appendix C.—Particulars of balance of lands under settlement—*cont.*

District.	Settled and reported on.								Settled but not reported on.		Settlement proceeding.	
	Notified under section 16 during 1909–1910, but reservation effected only after 30th June 1910.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.					
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	..	..	..	..	..	..	..	..	..	..	1	(a) ..
Vizagapatam ..	..	..	1	4	..	..	1	4	..	..	..	..
Gódávari, Upper ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..	..	..	..	..	1	75	..	..
Kistna.	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	..	..	1	2	..	..	1	2	..	..	1	1
Anantapur ..	..	..	1	1	..	..	1	1	1	(a) ..	3	11
Total ..	..	..	3	7	..	..	3	7	2	75	5	(b) 12
Central Circle.												
Cuddapah, North ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South.	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	1	(a)	..	..	..	..	1	(a)	..	..	1	(a)
Arcot, North ..	1	1	..	..	..	..	1	1	..	..	1	1
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..
Salem, North ..	..	..	..	..	..	..	..	..	1	46	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	2	6
Trichinopoly ..	..	..	1	* 2	1	1	2	3	..	..	2	2
Tanjore	..	..	..	..	..	..	..	..	1	1	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..	1	(a)
Total ..	2	1	1	2	1	1	4	4	2	47	7	9
Southern Circle.												
South Canara ..	1	4	1	(a) ..	1	(a) ..	3	4	..	..	2	2
Malabar, North ..	..	..	..	..	..	..	..	..	..	..	1	1
Do. South ..	..	..	..	..	..	..	..	..	1	45	..	..
The Nilgiris ..	..	..	3	(a) ..	..	..	3	(a)	..	..	..	..
Kollegal	..	..	..	..	..	..	..	..	1	246	2	12
Coimbatore, North.	..	..	1	* 16	..	..	1	16	..	..	3	(a) ..
Do. Central.	..	..	..	..	..	..	..	..	2	47	1	(a) ..
Tinnevelly ..	..	..	1	(a) ..	..	..	1	(a)	5	1	10	1
Total ..	1	4	6	16	1	..	8	20	9	339	19	16
Grand Total ..	3	5	10	25	2	1	15	31	13	461	31	37

(a) Below one square mile.
(b) As per report this is 93, difference due to rounding of figures; the actual figure being 92·52.
* Notified under section 16 subsequent to the close of the year.

Appendix C.—Particulars of balance of lands under settlement—*cont.*

District.	Of lands notified under section 4.																													
	1891-92.		1894-95.		1896-97.		1897-98.		1898-99.		1899-00.		1900-01.		1901-02.		1902-03.		1903-04.		1904-05.		1905-06.		1906-07.		1907-08.		1908-1909.		1909-1910.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Northern Circle.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.
Ganjám ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	1	4	..	..	..	..	..	..
Gódávari, Upper.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	1	1	..	..
Anantapur ..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3	11
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	75	..	..	..	..	..	..	..	..	1	4	1	2	3	2	4	(b)11
Central Circle.																																
Cuddapah, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	1	(a)
Arcot, North .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	1
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..
Salem, North ..	..	..	..	..	..	..	..	..	..	..	..	..	1	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	6
Trichinopoly ..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	2	2
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..
Guntúr ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
Total ..	..	..	..	.	..	..	..	..	1	2	..	..	1	46	..	..	..	..	..	..	..	..	1	1	..	..	2	2	1	(a)	7	9
Southern Circle.																																
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	1	2	..	..	2	(a)	1	(a)
Malabar, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Do. South.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	45	..	..	..	..	..	..	..	..	.	..	..	..
The Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	(a)	..	..	..	..	..	..
Kollegal ..	1	246	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	..	..	1	(a)
Coimbatore, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	16	..	..	..	..	..	..	..	..	1	(a)	..	..	..	..	2	(a)
Coimbatore, Central.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	47	1	(a)	..	..
Tinnevelly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	(a)	4	(a)	10	(a)
Total ..	1	246	..	..	..	..	..	..	..	..	..	..	..	..	2	17	..	..	1	45	..	..	1	4	5	2	4	59	7	..	15	1
Grand Total ..	1	246	..	..	..	..	..	..	1	2	..	..	1	46	3	92	..	..	1	45	..	..	2	5	6	6	7	63	11	2	26	21

(a) Below one square mile.
(b) As per report this is 93, difference due to rounding of figures ; the actual figure being 92·52.

APPENDIX D.—Causes of delay in the submission of final notifications of Forest reserves.

District.	Notified under section 16 during 1909–1910, but with effect only after 30th June 1910.	With Board or Government awaiting publication of final notification under section 16.	Returned by the Board to Collectors for revision.	Pending check and revision by Collectors and not submitted to the Board.	Awaiting disposal of appeals.	Awaiting expiry of appeal time.	Awaiting inspection and settlement of claims by the Forest officers.	Awaiting enquiry into claims by Forest Settlement-officer after issue of proclamation under section 6.	Total.
1	2	3	4	5	6	7	8	9	10
Northern Circle.									
Ganjám	..	..	..	..	..	..	..	1	1
Vizagapatam	..	1	..	..	..	..	..	..	1
Gódávari, Upper ..	..	..	..	..	..	..	..	..	..
Do. Lower ..	..	..	..	..	1	..	..	..	1
Kistna	..	..	..	..	..	..	..	..	..
Kurnool, East	..	..	..	..	..	..	..	..	..
Do. West	..	..	..	..	..	..	..	..	..
Bellary	..	1	..	..	..	..	..	1	2
Anantapur	..	1	..	..	1	..	..	3	5
Total ..	..	3	..	..	2	..	..	5	10
Central Circle.									
Cuddapah, North ..	..	..	..	..	..	..	..	..	..
Do. East	..	..	..	..	..	..	..	..	..
Do. South	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..
Chingleput	1	..	..	..	..	..	..	1	2
Arcot, North	1	..	..	..	..	..	..	1	2
Do. South	..	..	..	..	..	..	..	..	..
Salem, North	..	..	..	..	1	..	..	..	1
Do. South	..	..	..	..	..	..	2	..	2
Trichinopoly	..	1	1	..	..	..	..	2	4
Tanjore	..	..	..	1	..	..	..	..	1
Guntúr	..	.	..	..	..	..	..	1	1
Total ..	2	1	1	1	1	..	2	5	13
Southern Circle.									
South Canara	1	1	1	..	..	..	2	..	5
Malabar, North	..	..	..	..	..	..	1	..	1
Do. South	..	..	..	..	1	..	..	..	1
The Nilgiris	..	3	..	..	..	..	..	..	3
Kollegal	..	..	..	1	..	..	2	..	3
Coimbatore, North ..	..	1	..	..	..	..	3	..	4
Do. Central ..	..	..	..	..	2	..	1	..	3
Tinnevelly	..	1	..	4	..	1	10	..	16
Total ..	1	6	1	5	3	1	19	..	36
Grand total ..	3	10	2	6	6	1	21	10	59

APPENDIX E.—Reserved Lands not under Settlement in square miles.

District.	Up to 1908–1909.	Added during 1908–1909.	Added during 1909–1910.	Total.	Transferred to settlement.				Balance.
					Up to 1908–1909.	During 1908–1909.	During 1909–1910.	Total.	
1	2	3	4	5	6	7	8	9	10
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	598	(*b*) — (*a*)	+ (*a*)	598	598	..	+ (*a*)	598	..
Vizagapatam ..	345	(*c*) — 43	..	302	302	..	+ (*a*)	302	..
Gódávari, Upper ..	428	..	..	428	428	..	..	428	..
Do. Lower ..	482	..	..	482	482	..	..	482	..
Kistna ..	278	(*e*) + 16	(*e*) + 3	297	278	..	..	278	(*e*) 19
Kurnool, East ..	1,479	(*b*) — 1	..	1,478	1,479	(*b*)— 1	..	1,478	..
Do. West ..	1,151	..	(*d*) + 11	1,162	1,151	..	(*g*) + 11	1,162	..
Bellary	689	+ 1	..	690	626	+ 1	..	627	(*f*) 63
Anantapur ..	547	+ (*a*)	+ 17	564	534	+ 1	+ 12	547	(*e*) 17
Total ..	5,997	— 27	+ 31	6,001	5,878	+ 1	+ 23	5,902	99
Central Circle.									
Cuddapah, North ..	735	..	1	736	735	..	..	735	1
Do. East ..	1,089	(*h*) — 6	..	1,083	1,089	(*h*) — 6	..	1,083	..
Do. South ..	529	..	..	529	529	..	..	529	..
Nellore	737	..	..	737	737	..	..	737	..
Chingleput ..	214	(*d*) 2 — 2	(*a*) (*k*) — 1	213	214	(*d*) 2 — 2	(*k*) — 1	213	..
Arcot, North ..	1,291	..	(*b*) 2 — 1	1,292	1,291	..	(*b*) 1 — 1	1,291	1
Do. South ..	663	..	(*d*) + 3	666	663	..	(*d*) + 3	666	..
Salem, North ..	977	..	..	977	977	..	..	977	..
Do. South ..	670	..	6	676	670	..	6	676	..
Trichinopoly ..	318	(*b*) — 1 (*d*) — 2	2 (*d*) — 32	285	318	(*b*) — 1 (*d*) — 2	2 (*d*) — 32	285	..
Tanjore	20	..	..	20	19	1	..	20	..
Guntúr	814	..	(*a*)	814	814	..	(*a*)	814	..
Total ..	8,057	— 9	— 20	8,028	8,056	— 8	— 22	8,026	2
Southern Circle.									
South Canara ..	1,041	(*l*) — 1	(*m*) — 54	986	879	(*l*) — 1	..	878	108
Malabar, North ..	261	..	1	262	261	..	1	262	..
Do. South ..	307	..	(*n*) — 80	227	288	..	(*n*) — 80	208	(*f*) 19
The Nilgiris ..	524	..	(*o*) + 44	568	438	..	(*o*) + 44	482	(*q*) 10 (*f*) 76
Kollegal	731	..	(*r*) — 26	705	731	..	(*r*) — 26	705	..
Coimbatore, North.	854	..	(*s*) — 1 (*o*) — 44 (*r*) + 110	919	854	..	(*s*) — 1 (*o*) — 44 (*r*) + 110	919	..
Do. Central.	274	..	(*n*) + 80	354	274	..	(*n*) + 80	354	..
Do. South.	457	..	..	457	457	..	..	457	..
Madura	666	..	..	666	666	..	..	666	..
Tinnevelly ..	438	..	1	439	438	..	(*p*) 1	439	..
Total ..	5,553	— 1	31	5,583	5,286	— 1	85	5,370	213
Grand total ..	19,607	— 37	42	19,612	19,220	— 8	86	19,298	314

(*a*) Below one square mile.
(*b*) Disafforested.
(*c*) Previous error of calculation rectified.
(*d*) Correct computation of area.
(*e*) Reserved lands notified under section 26.
(*f*) Leased forests.
(*g*) Not actually transferred to settlement but added as per (*d*) *supra*.
(*h*) Excluded on account of alteration made in the boundary by the Board.
(*k*) Revision of area on account of disafforestation of small blocks.
(*l*) Excluded at settlement.
(*m*) Transferred to unreserved lands and deducted owing to wrong computation.
(*n*) Transferred from South Malabar to Central Coimbatore.
(*o*) Transferred from North Coimbatore to the Nilgiris.
(*p*) Inserted in the Board's Office.
(*q*) Area of small plantations notified under section 26 of the Forest Act.
(*r*) Rectification of area due to adoption of survey of India figures.
(*s*) Excluded by renotification.

APPENDIX F.—Abstract of District Reports in regard to the maintenance of maps in accordance with the provisions of section 80 of the Forest Code.

Northern Circle.

Ganjám.—The maps of 3 sâl coupes, 3 fuel coupes, 5 bamboo coupes, 3 massifs, 4 blocks and 12 reserves, 6 unreserves, 1 khandam, 1 ranger's quarters and 1 range and 1 district were prepared during the year.

Vizagapatam.—A district reference map, range maps of the 3 ranges (taluk maps with reserves marked thereon), and printed sketch-maps of reserved forests so far as they have been obtained from the Superintendent, Revenue Survey, Madras.

Gódávari, Upper.—The district map (1″ = 4 miles) showing all the reserves has been maintained as also range forest maps (1″=1 mile). Separate maps for each reserve were also kept.

Gódávari, Lower.—The district map (1″ = 4 miles) ; showing all the reserves, etc., has been maintained as also range forest maps (1″ = 1mile). Separate maps for each reserve were also maintained.

Kistna.—The district, range and reserve maps have been maintained as usual.

Kurnool, East.—The district, range and reserve maps were maintained as usual.

Kurnool, West.—Maps referred to in previous years reports have been maintained.

Bellary.—The district, range and reserve maps were maintained as usual.

Anantapur.—The district, range, reserve and working-plan maps have been maintained as usual.

Central Circle.

Cuddapah, North.—The district and range reference maps are maintained. Out of 82 reserved forests, maps for 72 have been prepared and of these 37 were published by the Survey of India and 35 by the Madras Survey and there remain 10 maps to be done by the latter. Working-plan maps continue to be maintained.

Cuddapah, East.—Map for the Seshachellam timber working circle and beat maps of the Pullampet range and part of Badvel range were prepared besides plans for combined guards' and watchers' quarters. Posting and preparing maps in connection with the boundary discrepancy sketches received from revision Survey Party were attended to.

Cuddapah, South.—The district and range forest reference maps are maintained. Out of 66 reserved forests, maps for 24 were published by the Survey of India and the remainder by the Madras Survey of which 2 still remain to be done.

Nellore.—As reported last year no range reference maps are maintained, but the reserves and boundaries of the ranges are marked on the taluk maps.

Chingleput.—Copies of working-plan maps were prepared and the district forest reference map was posted up. Map for the proposed Senkundram extension reserve was prepared besides other miscellaneous maps.

North Arcot.—No fresh maps were prepared. The district and range reference maps are posted and maintained.

South Arcot.—The district reference maps are posted and maintained. Maps for 20 reserves reported as pending in the Madras Survey office last year, have been received during the year. Manuscript copies of maps of 12 reserves are pending in the Survey office and maps for 6 more reserves were ready for despatch.

Salem, North.—The district and range forest reference maps and working-plan maps are maintained. There are Survey of India maps for 86 reserved forests and Madras Survey maps for three.

Salem, South.—The reference, reserve and working-plan maps are maintained.

Trichinopoly.—The District Forest reference map and taluk (Range) maps were posted and maintained. Maps of certain reserves and working circles were prepared besides plans for certain buildings. Final maps of two reserves were sent to the Madras Survey office and maps for 44 were received and for 8 more remain still to be sent.

Tanjore.—The district and range forest reference maps and working-plan maps are maintained. Reserve maps with topographical features and admitted rights were prepared.

Guntúr.—The district and range maps are maintained as usual.

Southern Circle.

District reference and reserve maps were maintained and posted and quinquennial maps for the last annual report prepared in all districts. In South Malabar a revised district reference map, outlines of maps for reserved forests and reserved lands for recording fires, and maps of Edacode 1846, 1848, 1850 and 1852, showing bench marks and levels taken on teak trees were prepared. Some of the settlement maps in the Nilgiris were lost and it is reported that the loss is of little importance as the boundaries of forests follow the boundaries of fields marked by cadastral survey on village maps. Working-plan maps in Kollegal, North Coimbatore, South Canara, South Coimbatore and Tinnevelly and fire-protection maps in the first two districts were posted.

APPENDIX G.—Statement showing the area of Reserved Forests for which final maps have been prepared.

District.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.	Remarks.
Northern Circle.	SQ. MILES.	SQ. MILES.	
Ganjám	598	598	
Vizagapatam	298	193	
Gódávari, Upper	428	428	
Do. Lower	407	407	
Kistna	278	137	
Kurnool, East	1,478	* 1,452	* Maps for the remaining area of 26 square miles are due from Survey of India office.
Do. West	1,162	777	
Bellary	624	563	
Anantapur	535	535	
Total ..	5,808	5,090	
Central Circle.			
Cuddapah, North	735	735	
Do. East	1,083	1,083	
Do. South	529	529	
Nellore	737	735	
Chinglepat	213	213	
Arcot, North	1,289	1,274	
Do. South	666	666	
Salem, North	931	† 977	† Includes 46 square miles of reserved lands pending notification under section 16.
Do. South	670	631	
Trichinopoly	280	‡ 280	‡ Final maps for 8 blocks aggregating 8 square miles have yet to be sent to the Survey office but they are reported to be settlement maps showing only the boundaries and admitted rights.
Tanjore	19	19	
Guntúr	814	614	
Total ..	7,966	7,756	
Southern Circle.			
Canara, South	872	872	
Malabar, North	261	261	In spite of the remarks made last year "final notification" maps have again been shown as final maps in some districts. Full details are now being called for.
Do. South	163	11	
The Nilgiris	482	482	
Kollegal	447	417	
Coimbatore, North	903	884	
Do. Central	307	205	
Do. South	457	457	
Madura	666	666	
Tinnevelly	437	416	
Total ..	4,995	4,671	
Grand Total ..	18,769	17,517	

Appendix H.

District.	A. Fires caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas							
					Owing to carelessness or accident							
					By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		By villages, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjám	14	3,124	17	1,947	1	1	12	550	..	..	..	..
Vizágapatam	1	20	17	1,300	..	..	5	1,550	..	..	..	..
Gódávari, Upper	4	1,651	20	119,695	..	..	2	2,150	..	..	..	..
Do. Lower	..	..	9	1,100	8	645	77	2,957	..	..	..	..
Kistna	..	..	7	1,058	..	..	..	..	..	..	..	..
Kurnool, East	9	14,246	7	17,602	1	26	4	9,702	1	246	..	..
Do. West	7	1,373	12	12,717	3	1	10	9,376	..	..	..	..
Bellary	2	150	4	2,404	..	..	4	1,175	..	..	..	..
Anantapur	1	..	..	..	..	..	1	300	..	..	..	..
Total ..	38	20,564	93	157,823	13	673	115	27,760	1	246	..	..
Total for 1908–1909 ..	14	2,168	19	1,726	8	356	42	3,797	6	110	..	..
Central Circle.												
Cuddapah, North ..	2	30	8	(a)14,879	2	76	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	7	1,430	..	..	..	..
Do. South ..	3	250	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	1	320	..	..	1	2	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..
Arcot, North	..	..	13	1,727	..	..	27	2,268	2	41	1	30
Do. South	1	6	5	252	1	28	..	..	..	..	..	..
Salem, North	2	205	1	15	3	64	5	195	..	..	..	..
Do. South	..	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly	..	..	..	..	..	..	(b) 1	..	..	..	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	8	491	28	17,193	6	168	41	3,895	2	41	1	30
Total for 1908-1909 ..	2	5	18	4,174	11	1,056	(c) 25	1,403	..	..	..	..
Southern Circle.												
Canara, South	21	689	25	789	4	279	114	2,610	..	..	..	..
Malabar, North ..	3	825	1	13,100	..	..	1	50	..	..	..	..
Do. South * ..	3	2	1	10	..	..	1	1	..	..	..	..
The Nilgiris *	..	..	.	..	..	..	8	109	..	..	..	..
Kollegal	6	3,780	..	..	1	10	2	300	..	..	..	..
Coimbatore, North ..	2	503	1	300	..	..	11	6,890	..	..	..	..
Do. Central ..	..	..	4	323	2	40	8	297	..	..	..	..
Do. South † ..	..	..	4	149	1	200	6	314	..	..	..	..
Madura *	..	..	2	25	..	..	1	..	..	..	..	..
Tinnevelly	6	195	8	573	3	41	5	56	..	..	8	1,723
Total ..	41	5,994	46	15,269	11	570	157	10,627	..	..	8	1,723
Total for 1908–1909 ..	68	3,389	34	5,309	23	2,698	93	13,377	3	66	1	1,050
Grand Total, Presidency, for 1909–1910.	87	27,049	167	190,285	30	1,411	313	42,282	3	287	9	1,753
Grand Total, Presidency, for 1908–1909.	84	5,562	71	11,209	42	4,110	167	18,577	9	176	1	1,050

* Includes the number of fires in the areas under general protection not shown in form No. 72.

† Fires in the areas under general protection are not reported.

(a) The Collector's figure has been reduced by 1 acre to arrive at the total in column 25.

(b) Less than 1 acre.

(c) Corrected in the Board's office.

APPENDIX H.—*cont.*

District.	C. Fires beginning inside the reserves or fire-traced areas—*cont.*								Causes unknown.		Total of A, B and C and causes unknown.	
	By intentional firing.											
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		* Total.					
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												ACS.
Ganjám	..	..	..		3	183	16	734	33	3,907	80	9,712
Vizagapatam	..	.	3	1,212	3	57	11	2,819	35	19,265	64	23,404
Gódávari, Upper ..	..	..	..	.	1	7,000	3	9,150	10	9,567	37	140,063
Do. Lower ..	..	..	2	600		..	87	4,202	4	250	100	5,552
Kistna, ...	..	..	..	..	..	..	..	..	.	..	7	1,058
Kurnool East	1	2.960	1	80	7	8,209	15	21,223	11	12,960	42	66,031
Do. West	6	3,000	17	85,662	4	57	40	98,096	70	244,396	129	356,582
Bellary	9	9,429	..	..	1	90	14	10,694	..	.	20	13,248
Anantapur	..	..	..	..	3	470	4	770	23	3,300	28	4,070
Total ..	16	15,389	23	87,554	22	16,066	190	147,688	186	293,645	507	619,720
Total for 1908–1909 ..	1	160	7	1,740	12	7,850	76	14,013	31	14,295	140	32,202
Central Circle.												
Cuddapah, North ..	3	320	7	12,860	1	5,340	13	18,596	29	9,318	52	42,823
Do. East ..	55	59,112	..	..	..	..	62	60,542	29	24,350	91	84,892
Do. South ..	..	..	..	..	..	..	..	..	23	794	26	(*b*) 1,044
Nellore	..	..	..	..	..	..	1	2	..	..	2	322
Chingleput	..	..	..	..	2	72	2	72	..	..	2	72
Arcot, North	95	5,833	..	..	8	853	133	9,025	77	2,726	223	13,478
Do. South	..	..	..	..	..	..	1	28	30	1,440	37	(*c*) 1,726
Salem, North	4	650	..	..	4	110	16	1,019	42	3,033	61	(*d*) 4,272
Do. South	..	..	..	..	5	10	5	10	120	9,905	125	(*e*) 9,915
Trichinopoly	..	..	..	..	1	10	2	10	(*a*) 5	280	7	290
Tanjore	..	..	..	..	..	..	..	.	..	..	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	157	65,915	7	12,860	21	6,395	235	89,304	355	51,846	626	158,834
Total for 1908–1909 ..	23	4,566	1	4	21	1,108	82	8,137	107	21,866	209	34,182
Southern Circle.												
Canara South	27	347	5	878	8	525	158	4,632	63	2,721	267	8,838
Malabar, North	..	..	..	..	..	..	1	50	..	..	5	13,975
Do. South *	..	..	..	..	1	not reported	2	1	..	..	6	13
The Nilgiris *	12	9,251	..	..	..	..	20	9,360	..	..	20	9,360
Kollegal	..	..	2	4,025	2	440	7	4,775	31	51,362	44	59,917
Coimbatore, North ..	5	975	..	..	3	1,410	19	9,275	10	4,556	32	14,634
Do. Central ..	..	..	..	..	2	470	12	807	22	2,198	38	3,328
Do. South† ..	3	285	..	..	..	..	10	799	1	6	15	954
Madura *	..	..	..	..	1	..	2	..	26	5,959	30	5,984
Tinnevelly	7	1,059	1	110	27	19,160	51	22,149	..	.	65	22,917
Total ..	54	11.917	8	5,013	44	22,005	282	51,855	153	66,802	522	139,920
Total for 1908–1909 ..	35	4,669	9	528	42	10,984	206	33,372	117	14,626	425	56,696
Grand Total, Presidency, for 1909–1910.	227	93,221	38	105,427	87	44,466	707	288,847	694	412,293	1,655	918,474
Grand Total, Presidency, for 1908–1909.	59	9,395	17	2,272	75	19,942	364	55,522	255	50,787	774	123,080

* Includes the number of fires in the areas under general protection not shown in form No. 72.

† Fires in the areas under general protection are not reported.

(*a*) Area in two cases is less than an acre.

(*b*) Includes 105 acres burnt in unprotected areas and 358 acres in areas in which burning of grassy strips were proposed.

(*c*) Includes area burnt in unprotected blocks.

(*d*) Includes 2,402 acres burnt in unprotected blocks.

(*e*) Includes areas burnt under other systems.

Appendix I.—Comparative statement of impounded cattle.

Districts.	From open forests.		From closed forests.				Total.		Average for three years ending 1908–1909.
			Holding permits for open forests.	Having no permits.	Holding permits for open forests.	Having no permits.			
	1908–1909.	1909–1910.	1908–1909.		1909–1910.		1908–1909.	1909–1910.	
Northern Circle.									
Ganjám	679	3,448	..	1,185	..	450	1,864	3,898	2,687
Vizagapatam ..	1,581	2,555	..	667	..	68	2,248	2,623	2,496
Gódávari, Upper ..	27	13	..	..	..	..	27	13	292
Do. Lower ..	883	1,154	49	207	..	135	1,139	1,289	638
Kistna	676	1,591	515	2,269	639	1,306	3,460	3,536	3,736
Kurnool, East ..	7,873	5 543	..	502	..	3,652	8,375	9,195	9,384
Do. West ..	20,118	9,308	..	1,633	..	4,249	21,751	13,557	17,137
Bellary	16,238	12,287	3,718	3,979	2,178	2,727	23,935	17,192	19,617
Anantapur	9,579	9,780	..	1,301	..	1,490	10,880	11,270	10,691
Total ..	57,654	45,679	4,282	11,743	2,817	14,077	73,679	62,573	66,678
Central Circle.									
Cuddapah, North.	5,014	2,580	..	..	294	2,151	5,014	5,025	5,167
Do. East ..	3,679	4,756	..	2,846	298	2,788	6,525	7,842	5,023
Do. South ..	3,809	4,827	..	1,734	.	2,156	5,543	6,983	14,001
Nellore	14,039	11,306	760	4,826	1,486	6,964	19,625	19,756	7,453
Chingleput ..	4,502	5,532	414	1,805	276	828	6,721	7,086	4,347
Arcot, North ..	12,815	15,305	403	6,605	906	6,256	19,823	22,467	18,721
Do. South ..	16,117	15,809	243	762	17	888	17,122	16,714	19,085
Salem, North ..	3,207	1,737	696	905	164	1,536	4,808	3,437	4,403
Do. South ..	3,710	2,281	197	838	401	1,503	4,745	4,185	6,123
Trichinopoly ..	7,774	2,894	125	1,121	118	4,080	9,020	7,092	7,595
Tanjore	291	97	203	164	385	421	658	903	809
Guntúr	8,496	11,268	2,710	3,358	3,792	6,636	14,564	21,696	14,997
Total ..	83,453	78,792	5,751	24,964	8,137	36,207	114,168	123,136	107,724
Southern Circle.									
Canara, South ..	1,140	924	..	10	6	40	1,150	970	1,271
Malabar, North ..	18	43	..	15	..	8	33	51	78
Do. South ..	..	..	..	198	..	189	198	189	130
The Nilgiris ..	166	587	..	176	39	7	342	633	567
Kollegal	1,837	2,923	..	170	23	..	2,007	2,946	
Coimbatore, North.	3,022	5,515	..	971	23	908	3,993	6,446	7,994
Do. Central.	1,479	757	..	2,293	..	1,689	3,772	2,446	
Do. South.	204	699	.	86	89	27	290	815	
Madura	6,272	3,579	..	2,401	1,343	1,021	8,673	5,943	13,112
Tinnevelly ..	782	929	1,593	3,122	1,747	4,037	5,497	6,713	5,650
Total ..	14,920	15,956	1,593	9,442	3,270	7,926	25,955	27,152	28,802
Grand Total ..	156,027	140,427	11,626	46,149	14,224	58,210	213,802	212,861	203,204

ANNUAL FORM No. 65. *Forest Department, Madras Presidency.*

AREA of reserved forests and reserved lands during 1909–1910.

District.	Area of reserved forests.						Area of reserved lands.						Total area of reserved forests and reserved lands.
	Area on 1st July 1909.		Added during the year.	Excluded during the year.	Area on 30th June 1910.		Area on 1st July 1909.		Added during the year.	Excluded during the year.	Area on 30th June 1910.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Northern Circle.													sq. MILS.
Ganjám	383,067	598	..	..	383,067	598	..		72	..	72	..	598
Vizagapatam	190,700	298	162	..	190,862	298	2,842	4	..	(a) 217	2,625	4	302
Gódávari, Upper	273,746	428	..	..	273,746	428	..	..	..	..	..	..	428
Do. Lower	260,692	407	..	..	260,692	407	47,955	75	..	..	47,955	75	482
Kistna	178,231	278	..	..	178,231	278	10,075	16	(b) 2,304	(b) 150	12,229	19	297
Kurnool, East	945,864	1,478	..	..	945,864	1,478	..	..	..	..	..	..	1,478
Do. West	736,810	1,151	(c) 7,027	..	743,837	1,162	..	..	..	.	..	..	1,162
Bellary	399,439	624	8	..	399,447	624	41,868	66	..	76	41,792	66	690
Anantapur	338,315	529	3,621	..	341,936	535	11,277	18	10,871	3,621	(d) 18,527	29	564
Total	3,706,864	5,791	10,818	..	3,717,682	5,808	114,017	179	13,247	4,064	(j) 123,200	193	6,001
Central Circle.													
Cuddapah, North	470,359	735	..	..	470,359	735	..	..	620	..	620	1	736
Do. East	693,397	1,083	..	..	693,397	1,083	..	..	..	..	..	..	1,083
Do. South	338,380	529	..	..	338,380	529	..	..	..	..	..	..	529
Nellore	471,829	737	..	(e) 105	471,724	737	..	..	..	..	..	..	737
Chingleput	135,503	212	1,107	(e) 44	136,566	213	1,116	2	58	(f) 1,107	67	..	213
Arcot, North	825,338	1,290	..	(e) 511	824,827	1,289	792	1	850	..	1,642	3	1,292
Do. South	424,636	663	(g) 2,535	(g) 882 (e) 15	426,274	666	..	..	.	..	..	..	666
Salem, North	595,300	931	..	..	595,300	931	29,290	46	..	..	29,290	46	977
Do. South	429,046	670	..	..	429,046	670	..	.	3,790	..	3,790	6	676
Trichinopoly	199,375	312	(h) 5,743	(h) 25,968	179,150	280	1,761	3	1,525	..	3,286	5	285
Tanjore	12,461	19	..	..	12,461	19	353	1	.	..	358	1	20
Guntúr	521,239	814	..	..	521,239	814	..	..	8	..	8	...	814
Total	5,116,863	7,995	9,385	27,525	5,098,723	7,966	33,317	53	6,851	1,107	39,061	62	8,028
Southern Circle.													
Canara, South	556,817	870	1,266	..	558,083	872	108,977	170	3	36,107	72,873	114	986
Malabar, North	166,898	261	..	6	166,892	261	21	..	483	..	504	1	262
Do. South	125,551	196	..	21,440	104,111	163	71,256	111	..	30,330	40,926	64	227
The Nilgiris	280,176	438	28,506	..	308,682	482	55,237	86	11	366	54,882	86	568
Kollegal	301,982	472	653	16,277	286,358	447	165,714	259	2	653	165,063	258	705
Coimbatore, North	535,980	837	69,992	28,140	577,832	903	10,574	17	271	334	10,511	16	919
Do. Central	175,217	274	21,440	..	196,657	307	13	..	30,330	..	30,343	47	354
Do. South	292,515	457	..	..	292,515	457	..	..	..	..	..	..	457
Madura	426,503	666	..	..	426,503	666	..	..	..	..	..	..	666
Tinnevelly	279,740	437	162	1	279,901	437	868	1	356	162	1,062	2	439
Total	3,141,379	4,908	122,019	65,864	3,197,534	(i) 4,995	412,660	644	31,456	67,952	376,164	588	5,583
Grand Total	11,965,106	18,694	142,222	93,389	12,013,939	18,769	559,994	876	51,554	73,123	538,425	843	19,612

(a) Transferred to reserved forests 162 acres and rectification of previous error 55 acres.
(b) Under section 26.
(c) Correct computation of area.
(d) Of which 7,376 acres under section 4 and 11,151 acres under section 26.
(e) Disafforested.
(f) Transferred to reserved forest.
(g) Corrections due to correct computation of areas when working-plans were prepared.
(h) Due to the adoption of areas obtained by more accurate computation from resurvey village maps of the reserves of Vaiyampatti range and of areas furnished by the Survey of India Party of the reserves on the Pachamalais, Musiri range.
(i) The area ofr eserved foreste entered in column 6, viz., 3,197,534 acres, works to 4,996 square miles and not 4,995 square miles.
(j) Excludes 5,401 acres in the Parlakimedi maliahs notified under section 26 of the Forest Act.

AREA of reserved forests and reserved lands during 1909–1910.

District.	Number and name of forest.	Area on 1st July 1909.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1910.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	NORTHERN CIRCLE.							
	Reserved forests.							
Ganjám.	Area notified in previous years..	383,067	598	..	..	383,067	598	
	Reserved lands not transferred to reserved forests during the year.							
	Chandragiri enclosure (Pudrangi).	..	..	72	..	72	..	No. 89, dated 4th February 1910.
	Reserved forests.							
Vizagapatam.	Area notified in previous years..	190,700	298	..	..	190,700	298	
	Barnakonda extension No. II ..	..	..	162	..	162	..	No. 209, dated 25th May 1909.
	Total ..	190,700	298	162	..	190,862	298	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	2,842	4	..	..	2,842	4	
	Barnakonda extension No. II ..	..	..	..	162	162	..	Transferred to reserved forests.
	Samaralli reserve	..	..	..	*55	55	..	
	Total deduction ..	..	..	..	217	217	..	
	Net area ..	2,842	4	..	217	2,625	4	
	Reserved forests.							
Gódávari, Upper.	Area notified in previous years.	273,746	428	..	..	273,746	428	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Gódávari, Lower.	Area notified in previous years ..	260,692	407	..	..	260,692	407	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	47,955	75	..	..	47,955	75	
	Reserved forests.							
Kistna..	Area notified in previous years..	178,231	278	..	..	178,231	278	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years.	10,075	15·74	..	..	10,075	15·74	Notified under section 26.
	Added—Kummara purugupalam.	..	..	1,855	..	1,855		
	Perupalam, block I	..	..	39	..	39		
	Do. II	..	..	45	..	45	3·60	
	Gopuvanipalem extension No. III.	..	..	159	..	159		
	Thallapalem	..	..	206	..	206		
	Total ..	10,075	15·74	2,304	..	12,379	19·34	
	Excluded—Portion in Kaldindi block I.	..	..	..	150	150	0·23	
	Net area ..	10,075	15·74 or 16	2,304	150	12,229	19·11 or 19	
	Reserved forests.							
Kurnool, East.	Area notified in previous years ..	945,864	1,478	..	..	945,864	1,478	
	Reserved lands not transferred to reserved forests during the year—Nil.							

* Rectification of previous error.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Range and name of forest.	Area on 1st July 1909.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1910.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
				NORTHERN CIRCLE—*cont.*				
				Reserved forests.				
Kurnool, West.	Area notified in previous years.	736,810	1,151	..	..	736,810	1,151	
	Added—							
	Yeperlapad	..	..	(*a*) 3,967·20	..	3,967·20	6·20 or 6 sq. mls.	
	South Dhone	..	..	(*a*) 3,059·40	..	3,059·40	4·78 or 5 sq. mls.	
	Total ..	736,810	1,151	7,026·60 or 7,027	..	743,836·60 or 743,837	1,162	
	Reserved lands not transferred to reserved forests during the year—Nil.							
				Reserved forests.				
Bellary.	Area notified in previous years ..	399,439	624	..	..	399,439	624	
	Survey No. 14, Inam land. Kontanahalli village.	..	..	8	..	8	..	No. 301, dated 7th July 1909.
	Total ..	399,439	624	8	..	399,447	624	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	41,868	66	..	..	41,868	66	
	Excluded—							
	Portion of moka plantation.	..	..	..	68	68	..	Excluded during settlement.
	Kontanahalli	..	..	..	8	8	..	Transferred to reserved forests.
	Total deduction ..	..	..	..	76	76	..	
	Net area ..	41,868	66	..	76	41,792	66	
				Reserved forests.				
Anantapur.	Area notified in previous years ..	338,315	529	..	..	338,315	529	
	Added—							
	Nyalakota extension ..	..	..	232	..	232	..	No. 353, dated 13th August 1909.
	Yerrakonda extension No. I.	..	..	3,389	..	3,389	6	No. 56, dated 15th January 1910.
	Total ..	338,315	529	3,621	..	341,936	535	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	11,277	18	..	..	11,277	18	
	Added—							
	Vengalammacheruvu reserve extension No. I.	..	..	57	..	57	..	No. 472, dated 16th November 1909. Notified under section 4.
	Budikonda extension No. I.	..	..	375	..	375	1	No. 324, dated 24th May 1910. Notified under section 4.
	Bhadrapur extension ..	..	..	360	..	360	1	Notified by the Collector under section 26.
	Janneavulapalli extension ..	..	..	96	..	96	..	
	Marutla extension	..	..	321	..	321	..	
	Murdarlapalli reserve ..	..	..	3,957	..	3,957	6	
	Palavoy reserve	..	..	705	..	705	1	
	Bhogasamudram	..	..	5,000	..	5,000	8	
	Total ..	11,277	18	10,871	..	22,148	35	
	Excluded—							
	Nyalakota extension ..	..	..	..	232	232	..	Transferred to Reserved forests.
	Yerrakonda extension No. I.	..	..	..	3,389	3,389	6	
	Total area excluded ..	..	..	..	3,621	3,621	6	
	Net area ..	11,277	18	10,871	3,621	18,527	29	

(*a*) Error corrected by recomputation of area.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Range and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
				CENTRAL CIRCLE.				
				Reserved forests.				
Cuddapah, North.	Area notified in previous years ..	470,359	735	..	..	470,359	735	
				Reserved lands not transferred to reserved forests during the year.				
	Pothipaud Tope Extension ..	..	..	620	..	620	1	Notified under section 26.
				Reserved forests.				
Cuddapah, East.	Area notified in previous years ..	693,397	1,083	..	..	693,397	1,083	
				Reserved lands not transferred to reserved forests during the year—Nil.				
				Reserved forests.				
Cuddapah, South.	Area notified in previous years ..	338,380	529	..	..	338,380	529	
				Reserved lands not transferred to reserved forests during the year—Nil.				
				Reserved forests.				
Nellore ..	Area notified in previous years ..	471,829	737	..	105	471,724	737	This is due to the area of that portion of the Vavveru reserve disafforested in 1903 having been found to be 105·04 acres more than what was taken into account by notification under section 24. A revised notification excluding the whole extent was published during the year—*vide* Government Order, No. 1556, dated 11th May 1910, in Board's Proceedings, Forest No. 133, dated 2nd June 1910.
				Reserved lands not transferred to reserved forests during the year—Nil.				
				Reserved forests.				
Chingleput.	Area notified in previous years ..	135,503	212	..	* 44	135,459		* Disafforestation of Melmeyyur block—Government Order, No. 452, Revenue, dated 10th February 1910.
	Oragadam Extension III .	..	..	(*a*) 17	..	17	213	
	Guindy Park	..	..	(*b*) 1,081	..	1,081		
	Salur Extension I	..	..	(*c*) 9	..	9		
	Total ..	135,503	212	1,107	44	136,566	213	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	1,116	2	..	1,107	9	..	Transferred to reserved forests. Notification No. 27, dated 27th December 1909.
	Senkundram Extension No. II ..	..	..	58	..	58	..	
	Total ..	1,116	2	58	1,107	67	..	
				Reserved forests.				
Arcot, North.	Area notified in previous years ..	825,338	1,290	..	† 511	824,827	1,289	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	792	1	..	..	792	3	No. 382, dated 26th August 1909.
	Airala Extension	..	..	850	..	850		
	Total ..	792	1	850	..	1,642	3	

(*a*) No. 428, dated 2nd October 1909. 0·6 cent. of Koliyalam block disafforested. Notification No. 68, dated 5th February 1910.
(*b*) No. 157, dated 22nd March 1910.
(*c*) No. 217, dated 29th March 1910.
† Disafforested { 240 acres from Pakala A reserved forest to provide a settlement for Koravar gang.
271 acres from Nedungal reserved forest to exclude patta and inam lands wrongly included at settlement.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1910.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	CENTRAL CIRCLE—*cont.*							
	Reserved forests.							
Arcot, South.	Area notified in previous years ..	424,636	663	(a) 2,535	(a) 882 (b) 15	426,274	666	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Salem, North.	Area notified in previous years ..	595,300	931	..	..	595,300	931	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	29,290	46	..	..	29,290	46	
	Reserved forests.							
Salem, South.	Area notified in previous years ..	429,046	670	..	..	429,046	670	
	Reserved lands not transferred to reserved forests during the year.							
	Arana	..	..	1,903	..	1,903	3	No. 363, dated 7th July 1909.
	Tirtagiri	..	..	1,887	..	1,887	3	
	Total ..	..	..	3,790	..	3,790	6	
	Reserved forests.							
Trichinopoly.	Area notified in previous years ..	199,375	312	(c) 5,743	(c) 25,968	179,150	280	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	1,761	3	..	..	1,761	3	
	Palamalai extension	..	..	892	..	892	1	No. 342, dated 7th August 1909.
	V. Kanapadi extension	..	..	633	..	633	1	Do.
	Total ..	1,761	3	1,525	..	3,286	5	
	Reserved forests.							
Tanjore.	Area notified in previous years ..	12,461	19	..	..	12,461	1	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	358	1	..	..	358	1	
	Reserved forests.							
Gunjur.	Area notified in previous years..	521,239	814	..	..	521,239	814	
	Reserved lands not transferred to reserved forests during the year.							
	Gokonakonda extension I ..	..	..	8	..	8	..	No. 232, dated 1st June 1909.

(a) Due to correct computation of areas when working-plans of Vadakuttu Working Circle and of Kallakurchi Range were prepared.
(b) Disafforested in Talankoda Reserved forest—*vide* Notification No. 93, dated 3rd February 1910.
(c) These alterations are due to the correct computation of areas of reserves in Vaiyampatti and Musiri Ranges.

AREA of reserved forests and reserved lands during 1909-1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1910.		Number and date of notification of addition or transfer
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	SOUTHERN CIRCLE.							
	Reserved forests.							
South Canara.	UDIPI.							
	Andar extension I	..	..	10	..	10	..	No. 28, dated 27th December 1909.
	UPPINANGADI.							
	Shiradi Sisla extension No. III ..	..	..	342	..	342	..	No. 14, dated 20th December 1909.
	Do. No. IV ..	..	..	143	..	143	..	No. 14, dated 20th December 1909.
	PUTHUR.							
	Ballery	..	..	684	..	684	..	No. 485, dated 18th November 1909.
	Kilarmale extension No. VII ..	..	..	87	..	87	..	No. 164, dated 22nd March 1910.
	Area notified in previous years ..	556,817	..	..	..	556,817	..	....
	Total ..	556,817	870	1,266	..	558,083	872	
	Reserved lands not transferred to reserved forests during the year.							
	PUTHUR.							
	Kilarmale extension No. VIII ..	..	..	3	..	3	..	No. 16, dated 13th December 1909.
	Area notified in previous years ..	108,977	..	..	(*a*) 1,266 (*b*) 215 (*c*) 34,626	72,870	..	....
	Total ..	108,977	170	3	36,107	72,873	114	
	Reserved forests.							
Malabar, North.	Area notified in previous years ..	166,898	261	..	(*d*) 6	166,892	261	No. 55, dated 10th January 1910.
	Reserved lands not transferred to reserved forests during the year.							
	BEGUR.							
	Ladysmith Additions I and II.	..	..	483	..	483	..	No. 92, dated 4th February 1910.
	Area notified in previous years ..	21	..	..	..	21	..	
	Total ..	21	..	483	..	504	1	
	Reserved forests.							
Malabar, South.	Area notified in previous years ..	125,551	196	..	(*e*) 21,440	104,111	163	No. 215, dated 24th March 1910.
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	71,256	111	..	(*e*) 30,370	40,926	64	No. 215, dated 24th March 1910.
	Reserved forests.							
Nilgiris, The.	COONOOR.							
	Kunshola Addition No. I ..	..	..	17	..	17	..	No. 397, dated 9th September 1909.
	OOTACAMUND.							
	Kokothorai	..	..	349	..	349	..	No. 465, dated 5th November 1909.
	Area notified in previous years ..	280,176	..	(*f*) 28,140	(*g*) ..	308,316	..	Disafforested in notification No. 491, dated 2nd December 1909.
	Total ..	280,176	438	28,506	..	308,682	482	

(*a*) Transferred to reserved forests.
(*b*) Excluded at settlement.
(*c*) Transferred to unreserved lands and deducted owing to inaccurate computation.
(*d*) Disafforested.
(*e*) Transferred to Central Coimbatore from South Malabar.
(*f*) Transferred to the Nilgiris from North Coimbatore.
(*g*) Less than one acre was disafforested.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	SOUTHERN CIRCLE—*cont.*							
	Reserved lands not transferred to reserved forests during the year.							
The Nilgiris—*cont.*	THE NILGIRIS.							
	Area notified in previous years ..	55,237	86	(*b*) 11	(*a*) 366	54,882	86	
	Reserved forests.							
Kollegal.	KOLLEGAL.							
	Doddasampagai reserve extension.	..	..	653	..	653	..	No. 358, dated 19th August 1909.
	Area notified in previous years ..	301,982	..	..	(*c*) 16,277	285,705	..	....
	Total ..	301,982	472	653	16,277	286,358	447	
	Reserved lands not transferred to reserved forests during the year.							
	KOLLEGAL.							
	Andipalayam Field No. 299 (portion) in Doddasampagai reserve.	..	..	2	..	2	..	No. 163, dated 18th March 1910.
	Area notified in previous years ..	165,714	..	..	(*a*) 653	165,061	..	....
	Total ..	165,714	259	2	653	165,063	258	
	Reserved forests.							
Coimbatore, North.	BHAVANI.							
	South Bargur addition Field Nos. 702 and 703 of Ennamangalam.	..	..	13	..	13	..	No. 390, dated 6th September 1909.
	Area notified in previous years ..	535,980	..	(*c*) 69,979	(*c*) 28,140	577,819	..	....
	Total ..	535,980	837	69,992	28,140	577,832	903	
	Reserved lands not transferred to reserved forests during the year.							
	BHAVANI.							
	Palamalai addition	..	..	19	..	19	..	No. 117, dated 4th February 1910.
	TALAMALAI.							
	Field No. 346 in Kinnarimandai in the Talamalai reserve.	..	..	4	..	4	..	No. 250, dated 26th April 1910.
	SATYAMANGALAM.							
	Gutialattur extension	..	..	(*d*) 248	..	(*d*) 248	..	No. 158, dated 24th March 1910.
	Area notified in previous years ..	10,574	..	..	(*d*) 321 (*a*) 13	10,240	..	....
	Total ..	10,574	17	271	334	10,511	16	
	Reserved forests.							
Coimbatore, Central.	Area notified in previous years ..	175,217	274	(*f*) 21,440	..	196,657	307	No. 215, dated 24th March 1910.
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	13	..	(*f*) 30,330	..	30,343	47	No. 215, dated 24th March 1910.

(*a*) Transferred to reserved forest.
(*b*) Added at settlement.
(*c*) Rectification of area due to adoption of Survey of India figures.
(*d*) Original notification was renotified.
(*e*) Transferred to the Nilgiris from North Coimbatore.
(*f*) Transferred to Central Coimbatore from South Malabar.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	SOUTHERN CIRCLE—*cont.*							
	Reserved forests.							
Coimbatore, South.	Area notified in previous years ..	292,515	457	..	..	292,515	457	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Madura ..	Area notified in previous years ..	426,503	666	..	..	426,503	666	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Tinnevelly.	KUTTALAM.							
	Vasudeva estate block	..	..	162	..	162	..	No. 165, dated 22nd March 1910.
	Area notified in previous years ..	279,740	..	..	(*a*) 1	279,739	..	No. 95, dated 3rd February 1910.
	Total ..	279,740	437	162	1	279,901	437	
	Reserved lands not transferred to reserved forests during the year.							
	SRÍVILLIPUTTÚR.							
	Survey Nos. 1861 B of Valaikulam and 2359 of Kollankondan in Srivilliputtúr ghât reserve	..	..	27	..	27	..	No. 291, dated 8th September 1909.
	Sappani Parambu extension ..	..	..	6	..	6	..	No. 37, dated 5th January 1910.
	Valaikulam Parambu extension.	..	..	34	..	34	..	No. 271, dated 3rd May 1910.
	Srívilliputtúr ghât forests V (a) additions 1 to 4	..	..	35	..	35	..	No. 297, dated 11th May 1910.
	Srívilliputtúr ghât forests V (a) additions 5 to 7	..	..	13	..	13	..	No. 335, dated 14th May 1910.
	Srívilliputtúr ghât forest V (a) extension	..	..	35	..	35	..	No. 347, dated 10th June 1910.
	KUTTALAM.							
	Vadagarai Melpidagai block III (b) extensions A, B & C. ..	..	..	71	..	71	..	No. 336, dated 8th June 1910.
	Additions to the reserved forests III (c) (2), Kadayanallur ..	..	..	33	..	33	..	No. 368, dated 27th June 1910.
	AMBÁSAMUDRAM.							
	Kaloli enclosure in Terkuviravanallur block.	..	..	9	..	9	..	No. 57, dated 8th February 1910.
	NÁNGUNÉRI.							
	Vallanad addition	..	..	12	..	12	..	No. 91, dated 8th February 1910
	Area notified in previous years ..	868	..	(*b*) 81	(*c*) 162	787	..	No. 165, dated 22nd March 1910.
	Total ..	868	1	356	162	1,062	2	

(*a*) Disafforested. (*b*) Excluded at settlement. (*c*) Transferred to reserved forests.

ANNUAL FORM No. 66.

Forest Department, Madras Presidency.

STATEMENT showing the Progress made in, and the Expenditure incurred on, Forest Settlements during 1909–1910.

ANNUAL

Forest Department,

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS. A. P.	RS. A. P.	RS. A. P.
Ganjám ..	598	....	....	..	..	..	..
Vizagapatam.	297·87	....	Baruva extension II	0·25	..	..	..
Gódávari, Upper.	427·73	G.O., No. 231, Revenue, dated 20th May 1909.	....	..	..	..	..
Gódávari, Lower.	407	....	....	..	..	..	..
Kistna ..	278·49	....	....	..	..	..	..
Kurnool, East.	1,477·91	....	....	..	..	..	..
Kurnool, West.	1,151	....	....	..	..	..	..
Bellary ..	624	G.O., No. 1800, dated 7th July 1909.	Addition to Konthanapalli Survey No. 14, inam land.	0·01	..	..	..
Anantapur.	529·048	G.O., No. 220, Revenue, dated 13th August 1909.	Nyalakota extension	0·36	..	..	..
		G.O., No. 139, dated 15th January 1910.	Yerrakonda extension No. I ..	† 5·30	..	..	..
		....	....	..	..	..	..
Total ..	5,791·048			5·92	..	..	..
							Central
North Cuddapah.	734·9	....	....	..	..	..	..
East Cuddapah.	1,083·43	....	....	..	..	..	..
South Cuddapah.	529	....	....	..	..	..	..
Nellore ..	737·07	....	....	..	..	..	..
Chingleput.	211·72	G.O., No. 2706, dated 2nd October 1909.	Oragadam extension No. III ..	ACS. 17·16	..	..	..
		G.O., No. 1149, dated 8th April 1910.	Koilpadagai extension No. II.	8·68			
		G.O., No. 900, dated 22nd March 1910.	Guindy Park	1,081·00			
		G.O., No. 999, dated 29th March 1910.	Salur extension No. I ..	9·42			
			Total ..	1,116·21 or 1·74 sq. mls.	..	..	..

	ACS.
* Chokkapad	30·00
Jillundi fuel coupe (unreserve)	·30
III of Buguda (unreserve)	6·00
V of do. (do.)	
VIII of do. (do.)	
IX of do. (do.)	
	36·30

† As corrected by the Collector.
‡ Sarugudu block No. VI.

FORM No. 66.

Madras Presidency.

incurred on, Forest Settlements during 1909–1910.

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on area undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
....	..	Pudringi enclosure	0·11	..	..	* 36·30
Somaralli	† 4·10	....	..	..	..	†‡ 10·16
....	..	....	..	..	..	..
Coringa extension	75	....	..	..	..	..
....	..	....	..	..	..	§ 19·11
....	..	....	..	..	..	..
....	..	....	..	..	..	..
Moka plantation	† 1·6	Sandal area near Chilkanhatti.	‖ 1·19	..	..	..
Kuderu reserve extension ..	0·93	Vengalammacheruvu extension.	0·09	..	441 1 2	¶ 17·42
Ramagiri reserve additions I and II.	0·12	Yerrakonda extension No. II.	9·80	..	227 14 10	..
....	..	Budikonda extension No. I ..	0·58	..	..	..
	81·75		11·77	..	669 0 0	82·99
Circle.						
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	Senkundram extension No. II.	ACS. 58·11 or 0·09 sq. mile.	..	..	....

§ Kanukollu .. .. ACS. 1,728
Kaldindi block I 533
Do. do. II 581
Peddalanka block I 1,618
Do. do. II 1,183
Vyavaku 4,383
Kummarapuragupalem 1,855
Perupalem block I 39
Do. do. II 45
Gopuvanipalem extension 159
Tallapalem 206

12,230
or 19·11 sq. mls.

¶ Bhadrapur extension .. .. ACS. 360
Jennyavulapalli do. 96
Marutla do. 321
Myderlapalli reserve 3,957
Palavoy do. 705
Bhogasamudram 5,000
Pamidi 712

11,151
or 17·42

‖ Notified during 1908–1909.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
North Arcot.	SQ. MLS. *1,288·79	....	....	SQ. MLS. ..	..	..	..
South Arcot.	† 666	....	....	..	..	..	..
North Salem.	931	....	....	..	..	..	..
South Salem.	670·38	....	....	..	..	..	..
Trichinopoly.	‡ 279·92	....	....	..	..	..	..
Tanjore ..	19	....	....	..	..	..	..
Guntúr ..	814·43	....	....	..	..	..	..
			Total ..	1·74	..		..
							Southern
South Canara.	870	G.O., No. 3035, Rev., dated 8th Nov. 1909.	Bellery	1	..	..	..
		G.O., No. 3494, Rev., dated 20th Dec. 1909.	Shiradi Sisla extension III ..	1	..	..	..
		....	Shiradi Sisila extension IV ..	..	..	..	..
		G.O., No. 3555, Rev., dated 27th Dec. 1909.	Andar extension I		..	..	..
		G.O., No. 893, Rev., dated 22nd March 1910.	Kilarmale extension VII ..	..	..	..	..
			Total ..	2	..	..	..
Malabar, North.	261	....	....	..	..	..	..
Malabar, South.	196 (*a*)—33	....	....	..	..	..	..
The Nilgiris.	438 (*b*)+44	G.O., No. 2488, Rev., dated 9th Sept. 1909.	Kunshola addition No. I ..	·02	..	..	..
		G.O., No. 2997, Rev., dated 5th Nov. 1909.	Kokkothorai	·52	..	..	..
		....	....	..	..	..	..
			Total ..	·54	..	..	..
Kollegal ..	472 (*c*)—26	G.O., No. 2229, Rev., dated 13th Aug. 1909.	Doddasampagai addition ..	1	..	..	..
	..	....	....	..	..	..	..
			Total ..	1	..	..	..
Coimbatore, North.	..	....	....	..	..	..	..
	837 (*c*)+110 (*b*)—44	G.O., No. 2461, Rev., dated 6th Sept. 1909.	South Burgur reserve addition.	·02	..		..
			Total ..	·02	..	..	..

* Excludes 510·99 acres disafforested.

† Difference due to the correct computation of area at the time of preparing working plans for Vadakuttu working circle and for Kallakurichi range and to the disafforestation of 15·40 acres in Talankoda reserved forest.

‡ Difference due to the correct computation of areas of reserves—*vide* foot-note to Form No. 65.

(*a*) Transferred from South Malabar to Central Coimbatore.
(*b*) Do. North Coimbatore to the Nilgiris.
(*c*) Rectification of area due to adoption of Survey of India figures.

incurred on, Forest Settlements during 1909–1910—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		ACS.	RS.		SQ. MLS.
Bommasamudram C block ..	·726	Airala extension	850 or 1·33 sq. mls.	..	..	....
.... ..	..	....	..	..	..	....
Hudaidurgam	46	....	..	..	..	....
.... ..	..	Arana	3	12	..	....
		Tirtagiri	3			
			6	12	..	....
Mogavanur	1·78	Palamalai extension	1·39	..	..	7·53
Vengur Padugai ..	1·00	V. Kanapadi extension ..	1·00	..	..	....
	2·78		2·39	..	..	....
Vengur (Togur)	0·55	....	..	..	..	....
.... ..	..	Gokanakonda extension No. I.	8 acres.	..	..	....
	50·05		9·81	..	..	7·53
Circle.						
Bantaji	4	Kilarmale extension VIII ..	..	68	..	108
Balpa extension	2	....	..	..	..	..
Bakudihola extension	..	....	..	..	..	..
Parappa addition No. I ..	..	....	..	..	..	..
.... ..	..	....	..	..	..	..
....	.	....	..	..	..	..
Total ..	6	Total ..	..	68	..	108
.... ..	..	Ladyamith addition	·75	..	..	..
The Silent valley	45	....	..	..	..	..
Bokkapuram reserve addition No. I.	·008	....	..	74	..	..
Bokkapuram reserve addition No. II.	·006	....	..	..	..	..
Bokkapuram reserve addition No. III.	·006	....	..	..	..	..
Total ..	·02	Total ..	..	74	..	10·50
Madeswaranmalai and its extension.	246	Andipalayam Field No. 299 (portion in Doddasampagai reserve).	..	..	..	..
Mambetta block	12	....	..	..	..	..
Total ..	258	Total ..	..	..	..	..
Ennamangalam	16	Palamalai additions	·03	..	..	..
Gutialatur extension ..	·50	Talamali additions	·006	..	..	..
	(*d*)— ·12					
....		....	..	..	..	..
Total ..	16·38	Total ..	·036	..	..	..

(*d*) Excluded by renotification.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.			
Coimbatore, Central.	274 (a)+33	....	....	..	..	..	..
	..	....	....	..	..	..	..
			Total ..	..	..	..	..
Coimbatore, South.	457	....	....	..	..	..	..
Madura ..	666	....	....	..	..	..	..
	437	G.O., No. 892, Rev., dated 22nd Mar. 1910.	Vasudeva estate block ..	·253	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
Tinnevelly.	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
			Total ..	·253	..	..	..
Total for the circle.	4,992	....		3·81	..	..	..

(a) Transferred from South Malabar to Central Coimbatore.

incurred on, Forest Settlements during 1909–1910—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.		SQ. MLS.
Chennimalai reserve addition.	·02	....	..	1,02,951	..	..
Attapadi block No. V .. Do. No. VI ..	47	....	..			
Total ..	47·02	Total ..	..	1,02,951	..	..
....	..	....	..	..	..	..
....	..	....	..	..	..	..
Naranapuram block	·609	....	..	2,534	..	..
Mayanparambu estate block ..	·170	....	..	..	..	..
Survey No. 365 of Marandai village Kottamalai extension.	·030	....	..	..	..	..
Kottamalai addition in three bits.	·166 (*b*)+·024	....	..	..	..	..
Panjanthangi estate	·113	....	..	..	..	..
Milavittan addition	·011	....	..	..	..	..
....	..	Survey Nos. 1861 B of Valaikulam and 2359 of Kollankondan in Srívilliputtúr ghât reserve.	·043	..	..	..
....	..	Sappani Parambu extension ..	·009	..	..	..
....	..	Srívilliputtúr ghât forests V-A additions 1 to 4.	·054	..	..	..
....	..	Vallanad addition	·019	..	..	..
....	..	Kaloli enclosure in Terku Viravanallur block.	·014	..	..	..
....	..	Valaikulam Parambu extension.	·054	..	..	..
....	..	Srívilliputtúr ghât forests V-*a* additions 5, 6 and 7.	·026	..	..	..
....	..	Srívilliputtúr ghât forests V-*a* extension.	·054	..	..	..
....	..	Vadagarai Melpidagai block III (*b*) extensions A, B & C.	·110	..	..	..
....	..	Additions to the reserved forest III (*c*) (2) Kadayanallur.	·052	..	..	..
Total ..	1·123	Total ..	·429	2,534	..	·104
	373·54		1·215	105,627	..	118·604

(*b*) Omitted in last year's return.

ANNUAL FORM No. 67.

Forest Department, Madras Presidency.

RECORD of Demarcation and Maintenance of Boundaries, 1909–1910.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at the close of the year	Length of natural boundaries not requiring marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.	
								On new work.	On repairs.
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	RS.
Ganjám (*a*-6)	50	197 (*a*) 737	229	1,213	...	80	1,293	1,025	1,779 (*d*)—1
Vizagapatam	43	(*a*) 452	...	495	...	...	495	468	42 (*d*) + 10
Gódávari, Upper	...	(*a*) 423	...	423	...	143	566	...	147
Do. Lower	...	10 (*a*) 573	225	(*f*) 808	7	(*f*) 72	887	...	135 (*b*) 536 (*c*)
Kistna	(*e*) 8	7 (*e*) 63	492	570	5	41	616	238	705 (*d*)—2
Kurnool, East	..	40	1,134	1,174	...	79	1,253	...	710 (*d*) + 28
Do. West	54	502 (*e*) 249	534	1,339	67	104	1,510	1,975	4 (*d*) + 5
Bellary	7	629	1,152	(*f*) 1,788	...	...	1,788	83	1,430 (*d*)—18
Anantapur	...	94	1,285	1,379	...	...	1,379	1,717	637
Total ...	162	1,791 (*a*) 2,185	5,051	9,189	79	519	9,787	5,506	6,147
Central Circle.									
Cuddapah, North	...	(*a*) 960 53	365	1,378	...	29	1,407	...	(*u*) 266
Do. East	17	(*g*) (*a*) 560 33	(*g*) 247	857	...	46	903	100	(*h*) 152
Do. South	10	(*a*) 850	251	1,111	(*i*) 5	...	1,116	...	57
Nellore	...	(*a*) (*s*) 2,079	...	2,079	...	84	2,163	...	1,418 (*d*) + 48
Chingleput	...	(*a*) 794	130	924	...	...	924	...	(*j*) 2,348 (*d*) — 2
Arcot, North	...	(*a*) 2,433	33	2,466	...	44	2,510	(*k*) 9	(*d*) 474
Do. South	14	(*a*) 1,605 (*l*) 9	736	2,362	...	...	2,362	(*m*) 415	(*n*) 735
Salem, North	70	(*a*) 1,124	101	1,295	13	65	1,373	338	211
Do. South	(*o*) 14	(*a*) 1,039 44	216	1,313	....	5	1,318	77	72
Trichinopoly	...	(*a*) 211 552	142	905	17	24	946	(*p*) 16	(*q*) 121
Tanjore	...	...	79	79	...	...	79	...	...
Guntúr	...	21	1,371	1,392	...	...	1,392	...	120 (*r*) 187
Total ...	125	(*a*) 11,653 712	3,671	16,161	35	297	16,493	955	6,207
Southern Circle.									
Canara, South	46 (*a*) 18	150 (*a*) 2,015	1,343	3,572	178	123	3,873	2,057 (*a*-5)—80	10 (*d*) + 9
Malabar, North	...	...	1,089	1,089	99	36	1,224	...	...
Do. South	...	...	186 (*w*)—54	132	14	38	184	...	(*z*) 567
The Nilgiris	...	451	1,119 (*x*) + 44	1,614	(*y*) ...	260 (*x*)+39	1,913	...	1,912 (*d*) + 74
Kollegal	...	5	35	363	9	67	439	(*a*-2) 144	25
Coimbatore, North	...	9	577 (*x*)—44	542	...	148 (*x*)—39	651	...	155 (*d*) — 19
Do. Central	...	7 (*w*) 4	498 (*w*) + 50	559	...	43	602	...	127 (*a*-1) 390
Do. South	...	...	228	228	...	52	280	...	(*a*-1) 328 (*d*)—40
Madura (*f*)	293	(*a*) 658	...	951	603	178	1,782	6,459	(*a*-3) 296 (*a*-1) 239
Tinnevelly (*f*)	...	(*t*)	(*t*) 459	459	3	14	476	(*a*-4) 262	(*a*-1) 287
Total ...	357	626 (*a*) 2,673	5,853	9,509	906	959	11,374	8,842	4,360
Grand Total ...	644	3,129 (*a*) 16,511	14,575	34,859	1,020	1,775	37,654	15,303	16,714

(*a*) Cleared by forest subordinates free of cost.
(*b*) Reclearing boundary line between Vuligogulu Reserve, Tuni and Peddapur estate forests and for repairing cairns.
(*c*) Establishment charges. (*d*) Added or deducted as per Accountant-General's audited figures.
(*e*) Coupe and compartment lines in the latter. (*f*) As per revised figures furnished by Collectors.
(*g*) Difference between total figures of columns 3 and 4 of this return and those in column 5 of the previous year is due to the non-maintenance during the year of boundaries between reserves owing to the formation of working circles.
(*h*) Rs. 90 represents cost of demarcating 33 miles; Rs. 14 of sundry demarcation work for 6 miles and Rs. 48 cost of cutting working circle boundary lines.
(*i*) Length of district and taluk boundaries between Anantapur, North and South Cuddapah, cleared.
(*j*) Includes Rs. 2,173 pay and famine allowance of watchers.
(*k*) Incurred in demarcating the enclosures in Tirupati hill extension reserve of 32 miles.
(*l*) Cleared at a cost of Rs. 80 in the Tiruklóyilúr range. The Range officer having spent this without previous sanction, the question of recovering the excess over the schedule rate is under consideration of the District Forest-officer.
(*m*) Includes cost of slabs for the demarcation of Ponniar block.
(*n*) Cost of rectification of demarcation already done and demarcation of coupes and topes.
(*o*) Cutting and clearing coupe lines at a cost of Rs. 65.
(*p*) For completing the unfinished portion of the Iyanarpalayam Reserved forest and for demarcating 10 acres of Korai area in Lalapet reserve.
(*q*) Cost of reclearing 19 miles of old lines and boundaries. (*r*) For cutting coupe, compartment and strip lines.
(*s*) Difference between the total of columns 3 and 4 and that of column 5 of last year's return is explained by the Collector to be due to the difference in the area observed in the portion disafforested from the Vavveru reserved forest in 1903.
(*t*) Particulars for columns 3 and 4 are reported to be not available.
(*u*) Cost of clearing coupe lines and taluk and reserve boundaries and erecting cairns.
(*w*) Transferred from South Malabar to Central Coimbatore. (*x*) Transferred from North Coimbatore to the Nilgiris.
(*y*) Two miles shown in the last year's return are omitted as they relate to enclosures requiring no separate demarcation.
(*z*) Cost of preliminary demarcation and reclearance of boundaries for survey by the Survey of India party.
(*a*-1) Cost of cutting and clearing coupe lines. (*a*-2) Cost of stones for Doddasampagai extension.
(*a*-3) Cost of demarcating grazing areas. (*a*-4) Cost of demarcating enclosures.
(*a*-5) Cash recovery ordered.
(*a*-6) Forty-eight miles of boundaries in the Parlákimédi maliahs were artificially demarcated during the year at a cost of Rs. 577.

ANNUAL FORM No. 68.

Forest Department, Madras Presidency.

STATEMENT of forest areas surveyed and under survey during the year 1909-1910.

District.	Areas surveyed and under survey during the year 1909-1910.														
	Special Surveys—Maps on 2-inch scale or over by Survey of India or Madras Survey.								Ordinary, included in topographical programme of the Survey of India or in district surveys.						
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.				With details of growing stock.		Without details of growing stock.		Total cost.			
	Previous.	Of year.	Previous.	Of year.		Previous.	Of year.	Total cost.	Previous.	Of year.	Previous.	Of year.		Previous.	Of year.	Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern Circle.	S. M.	S. M.	S MLS.	S. M.	RS.	S. MLS.	S. M.	RS.	S. M.	S. M.	S. MLS.	S. M.	RS.	S. M.	S. M.	RS.
Direction	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjám	..	..	(*a*) 794	..	..	(*c*) 447	..	(*d*)11,081	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari, Upper ..	..	..	(*b*) 716	..	..	252	..	..	..	..	..	..	..	..	..	..
Do. Lower ..	..	..														
Kistna	..	..	88	..	..	27	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	2,725	..	..	937	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	..	..	..	..	..	(*c*)624	..	..	..	..	..
Anantapur ..	..	..	168	..	..	..	..	..	..	..	188	..	..	..	..	..
Total ..	..	..	4,491	..	..	1,663	..	11,081	..	..	812	..	..	..	..	..
Central Circle.																
Cuddapah, North ..	..	..	(*c*) 577	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	1,083	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	(*c*) 240	..	..	MLS. (*c*) 355	..	..	..	..	(*c*)289	..	Not known	MLS. 761	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
Arcot, North ..	..	..	1,193	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	217	..	8,829	82	..	..	..	..	441	..	..	..	..	..
Salem, North ..	..	..	931	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South .	..	..	621	..	..	..	..	..	..	..	..	..	..	49	..	..
Trichinopoly ..	..	..	66	..	25,000	124	..	246	..	..	..	..	..	(*c*) 280	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Guntúr	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	67	..	4,968	..	33,829	206 MLS. 355	..	246	..	.	730	..	..	329 MLS. 761	..	..
Southern Circle.																
South Canara ..	..	..	(*i*) 1,226	40	..	592 and 25 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Malabar, North ..	..	..	155	..	..	158 and 3 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Do. South ..	1	..	237	..	..	130	..	..	..	..	2	..	..	..	..	..
			(*g*)—61													
The Nilgiris	..	..	(*f*) 357	59	..	..	..	..	..	..	..	..	..	..	..	..
			(*h*) +86													
Kollegal *	..	..	..	..	..	..	..	..	..	..	..	..	..	.	.	..
			(*i*)1,929													
Coimbatore, North* ..	..	..	(*h*) —86	..	..	319	..	7,574	..	..	..	..	..	..	..	..
			(*g*) +61													
Do. Central * ..	..	..	(*f*) 665	48	..	7	..	..	..	..	..	..	..	..	..	..
Do. South * ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madura	..	.	618	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly	..	..	437	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	1	.	5,624	147	..	1,206 and 28 linear miles.	..	22,354	..	..	2	..	..	..	..	..
Grand Total ..	68	..	15,083	147	33,829	3,075 MLS. 383	..	33,681	..	..	1,544	..	..	329 MLS. 761	..	..

(*a*) Furnished by the India Survey Party and includes enclosures inside reserves.
(*b*) This figure was entered by the India Survey Party for the Gódávari district.
(*c*) As revised by the Collectors.
(*d*) This amount is for Ganjám, Gódávari (Upper and Lower), Kistna and Kurnool (East and West) districts.
(*e*) Revised figures reported by the Collector. (*f*) Revised figure furnished by Survey of India.
(*g*) Transferred from South Malabar to Central Coimbatore. (*h*) Transferred from North Coimbatore to the Nilgiris.
(*i*) Survey of India figure; it more than covers the total area of reserves.
(*j*) Of these 130 square miles were resurveyed on the 2-inch scale during the year.
* Separate figures for these districts are reported to be not available at present.

Statement of forest areas surveyed and under survey during the year 1909-1910—*cont.*

District.	Areas surveyed and under survey during the year 1909-1910—*cont.*								Areas remaining to be taken under survey.	Total forest area at end of year, as per Form No. 65.	Cost.		
	Chain and compass or other surveys by local officers.												
	With interior details.					Boundary surveys.							
	4-inch or over.		Under 4-inch.		Total cost.								
	Previous.	Of year.	Previous.	Of year.		Previous.	Of year.	Total cost.			Previous.	Of year.	Entire cost of all surveys to end of the year.
	18	19	20	21	22	23	24	25	26	27	28	29	30
Northern Circle.	S. MLS.	S. MLS.	S. MLS.	S. MLS.	RS.	S. MLS.	S. MLS.	RS.	S. MLS.	S. MLS.	RS.	RS.	RS.
Direction	..	..	..	..	..	..	..	..	..	..	225	647	872
Ganjám	53	..	..	..	..	1,485	..	..	..	(*a*) 598	17,623	(*e*) 796	18,419
Vizagapatam ..	298	..	..	..	..	..	..	..	..	298	(*r*) 2,207	..	2,207
Gódávari, Upper ..	..	..	..	..	..	..	..	..	(*q*) 301	(*q*) 428	2,708	..	3,702
Do. Lower ..	1	..	26	..	6	540	..	796		..	..	(*d*) + 994	
										(*q*) & (*t*) 407	11,355	(*e*) 368	11,723
Kistna	15	1	..	..	5	366	8	203	174	278	3,706	(*e*) 961	4,667
Kurnool, East ..	51	..	..	..	215	115	..	110	..	1,478	3,371	(*e*) 1,760 (*d*) + 2	5,133
Do. West ..	..	..	..	..	..	59	65	388	(*s*) 396	1,162	1,912	206 (*d*) + 843	2,961
Bellary	(*b*)..	..	..	..	(*b*)..	..	..	..	..	624	3,761	424 (*d*) + 623	4,808
Anantapur ..	173	..	..	..	..	12	14	1,775	6	535	3,040	819	3,859
Total ..	591	1	26	..	226	2,577	87	3,272	877	5,808 +(*l*)193	(*t*)49,908	(*e*) 8,443 +(*e*)2,306	58,251 (*e*)+2,306
Central Circle.													
Cuddapah, North ..	..	..	..	..	..	..	..	..	158	736			
Do. East ..	..	..	..	..	..	..	..	..	..	1,083	1,10,586	(*f*) 319	1,10,905
Do. South ..	..	..	..	..	..	..	..	..	..	529			
Nellore ..	..	..	..	..	..	(*g*) 10	..	302	..	737	3,366	302 (*m*) + 104	3,772
Chingleput ..	..	..	..	..	..	..	..	..	..	(*k*) 213	2,745	(*f*) 385	3,130
Arcot, North ..	97	..	..	..	..	..	..	..	..	(*k*) 1,292	19,445	317	19,762
Do. South ..	6		..	..	52	..	..	..	..	(*h*) 666	10,834	(*f*) 375	11,209
Salem, North ..	..	..	..	..	..	..	..	..	..	977	26,238	2,177 (*m*) + 2	28,417
Do. South ..	40	2	..	..	(*j*)166	398	..	149	7	676	(*j*) 25,981	(*i*) 831 (*m*) − 30	26,782
Trichinopoly ..	(*h*) 14	6	..	..	(*j*)980	132	..	360	126	(*h*) 285	(*j*) 32,481	980	33,461
Tanjore	20	..	..	..	..	..	..	..	..	20	34	(*m*) + 38	72
Guntúr	..	..	..	..	..	..	..	..	..	814	15,067	(*f*) 439 (*m*) − 55	15,451
Total ..	177	8	..	..	1,198	540	..	811	291	8,028	2,46,777	6,184 + (*m*) 863	252,961 +(*m*)863
Southern Circle.													
South Canara ..	..	..	..	..	..	906	..	..	..	986	57,591	385	57,976
Malabar, North ..	..	..	..	..	..	..	..	..	107	262	12,565	576	13,141
Do. South ..	..	..	..	..	..	183	..	..	48	227	1,648	362	2,010
The Nilgiris ..	..	..	..	..	..	..	..	..	(*o*) 66	568	2,636	380	3,016
Kollegal *	..	..	..	..	..	..	..	..	13	705	..	52	..
Coimbatore, North *	..	..	..	..	..	..	..	..	..	919	95,482	..	96,028
Do. Central *	..	..	..	..	..	..	..	..	..	354	..	494	..
Do. South *	..	..	..	..	..	..	..	..	1 4	457	10,056	621 463	11,140
Madura	..	..	..	..	..	48	..	..	..	666	3,759	623	4,382
Tinnevelly	..	..	..	..	..	..	..	..	..	439	2,802	319	3,121
Total ..	..	..	..	..	..	1,137	..	..	248	5,583	1,86,539 (*n*) + 69 (*u*)+12,476	(*p*) 4,275	190,814 (*n*) + 69 (*u*)+12,476
Grand Total ..	768	9	26	..	1,424	4,254	87	4,083	1,416	19,612	4,95,769	18,902 + (*m*) 863 +(*e*) 2,306	514,571 +(*m*)863 +(*e*)2,306

* The figures for these districts cannot be separated at present.

(*a*) As per settlement records; excludes enclosures inside reserves.

(*b*) As revised by the Collectors.

(*c*) Establishment charges.

(*d*) Adjusted as per Accountant-General's audited figures.

(*e*) Survey of India charges during the year in the Northern Circle.

(*f*) Represents pay of draftsmen.

(*g*) Omitted from the district return last year.

(*h*) Difference between this figure and that given in column 27 of the previous year's return is due to the correct computation of areas —*vide* footnote to Form No. 65.

(*i*) Represents pay of surveyor, draftsman and contingencies connected with survey.

(*j*) Revised cost reported by the Collector.

(*k*) Difference between this figure and that given in column 27 of the previous year's return is due to disafforestaion of small areas.

(*l*) Area of reserved lands.

(*m*) Added or deducted as per Accountant-General's audited figures.

(*n*) Charges included under Direction in 1906-1907.

(*o*) Reserves of less than 1 square mile in extent.

(*p*) Expenditure under A-VIII (*c*) as per Accountant-General's audited figures.

(*q*) These three areas are less than the total surveyed area. The Collector explains that 716 in column 4 is wrong. Reference has been made to the India Survey Party.

(*r*) Includes Rs. 2,150 of previous years omitted by mistake.

(*s*) This is more than the difference between the surveyed area and the area of reserved forest. The Collector has been asked to explain.

(*t*) Corrected in the Board's office.

(*u*) Survey of India charges in 1906-1907.

Annual Form No. 69.

Forest Department, Madras Presidency.

Progress made in working-plans during 1909–1910.

District.	Areas for which working-plans have been completed and approved by the Board		Areas for which working-plans are being compiled or have been compiled but not sanctioned		Areas for which working-plans have still to be taken in hand.	Total forest areas, as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
Ganjám	451	..	..	..	147	598	..	
Vizagapatam	145	..	7	..	146	298	..	
Gódávari, Upper	..	..	225	..	203	428	..	
Do. Lower	240	..	55	..	112	407	486	
Kistna	58	..	33	59	128	278	..	
Kurnool, East	(*a*) ..	..	..	..	(*b*) 1,478	1,478	..	
Do. West	541	..	420	1	200	1,162	..	
Bellary	157	..	207	..	260	624	..	
Anantapur	436	..		..	99	535	..	
Total ..	2,028	..	947	60	2,773	5,808 + (*d*) 193	486	
Central Circle.								
Cuddapah, North	158	..	272	..	(*c*) 306	736	496	Pay and travelling allowance of draftsman.
Do. East	109	228	..	..	746	1,083	..	
Do. South	..	..	..	..	529	529	..	
Nellore	114	..	§ 587	..	36	737	..	
Chingleput	* 2	† 211	..	..	..	213	..	
Arcot, North	† 1,198	91	..	..	(*c*) 3	1,292	..	
Do. South	321	‡ 132	16	149	48	‡ 666	397	Pay, travelling allowance and batta of the draftsman.
Salem, North	299	..	678	..	..	977	..	
Do. South	487	53	..	..	136	676	..	
Trichinopoly	1	‡ 132	132	.	20	‡ 285	..	
Tanjore	4	..	15	..	1	20	..	
Guntúr	41	..	‖ ..	..	773	814	..	
Total ..	2,734	847	1,700	149	(*c*) 2,598	¶ 8,028	893	
Southern Circle.								
South Canara	662	..	..	..	210	872	..	
Malabar, North	178	..	..	..	83	261	..	
Do. South	7	..	..	..	152	159	..	
The Nilgiris ..	23 ** +90	..	..	..	369	482	..	
Kollegal	43	..	..	..	404	447	..	
Coimbatore, North..	381 ** —90 †† — 2	..	..	..	614	903	..	
Do. Central ..	220	..	..	..	87	307	..	
Do. South ..	67	..	8	..	355	430	..	
Madura	356	..	..	..	310	666	..	
Tinnevelly	240	..	..	5	192	437	..	
Total ..	2,175	..	8	5	2,776	4,964	..	

* Represent the area of Guindy Park for which a working-plan was approved by His Excellency the Governor.
† Difference due to disafforestation of small areas.
‡ Due to correct computation of areas—*vide* foot-note to Form No. 65.
§ Difference between this and last year's figure is reported to be due to converting acres into square miles wrongly.
‖ 3 square miles entered in last year's return is reported to be a mistake and therefore omitted.
¶ Includes area of reserved lands.
** Transferred from North Coimbatore to the Nilgiris.
†† Disafforested.
(*a*) Collector states that the entry of last year was a mistake, as there are no sanctioned working-plans in this division.
(*b*) Revised figure furnished by the Collector.
(*c*) Corrected in the Board's office.
(*d*) Area of unreserved lands in the Northern Circle.

Progress made in working-plans during 1909–1910—*cont.*

District.	Areas for which working-plans have been completed and approved by the Board		Areas for which working-plans are being compiled or have been compiled but not sanctioned		Areas for which working-plans have still to be taken in hand.	Total forest area as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
				Reserved lands.				
South Canara	..	..	..	..	114	114	..	
Malabar, North	..	..	..	..	1	1	..	
Do. South	..	..	..	..	45	45	..	
The Nilgiris	..	..	..	..	10	10	..	
Kollegal	10	..	..	..	248	258	..	
Coimbatore, North ..	..	..	..	..	16	16	..	
Do. Central ..	..	..	..	..	47	47	..	
Tinnevelly	..	..	..	..	2	2	.	
Total ..	10	..	..	..	483	493	..	
				Leased forests.				
Malabar, South	23	..	..	..	..	23	..	
The Nilgiris	76	..	..	..	..	76	..	
Coimbatore, South ..	..	..	..	..	27	27	..	
Total ..	99	..	..	..	27	126	..	
Total, Southern Circle ..	2,284	..	8	5	3,286	5,583	..	
Grand Total, Presidency ..	7,046	847	2,655	214	8,657	19,419 + (*d*) 193	1,379	

(*d*) Area of unreserved lands in the Northern Circle.

ANNUAL FORM No. 70.

Forest Department, Madras Presidency.

COMMUNICATIONS and Buildings.

ANNUAL.

Forest Department,

COMMUNICATIONS.

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		Rs.		Mls.	Rs.	Rs.
Direction ..	Houses for subordinate establishment	13,196	Ghat-roads	..	11,623	24,819
	Total, Direction ..	13,196		..	11,623	24,819
Ganjám * ..	Rest-houses	2,667	Cart-roads	19	2,026	8,706
	Houses for subordinate establishment	1,450				
	Others	2,563				
	Total, Ganjám ..	6,680		19	2,026	8,706
Vizagapatam.	Rest-houses	149	....	..	..	289
	Houses for subordinate establishment	140				
	Total, Vizagapatam ..	289		..	..	289
Gódávari, Upper.	Rest-houses	408	Cart-roads	21	1,043	2,803
	Houses for subordinate establishment	688	Bridges	..	80	..
	Others	462	Others	24	122	..
	Total, Gódávari, Upper ..	1,558		45	1,245	2,803
Gódávari, Lower.	Rest-houses	2,410	Cart-roads	6	886	5,105
	Houses for subordinate establishment	300	A-VII (*c*)	..	..	362
	Others	1,509				
	Total, Gódávari, Lower ..	4,219		6	886	5,467
Kistna ..	Rest-houses	258	Cart-roads	¼	55	920
	Houses for subordinate establishment	367				
	Others	240				
	Total, Kistna ..	865		¼	55	920

* Excludes Rs 60, spent in Parlákimedi maliahs in repairing and extending the Gutokholi shed by two rooms and repairing the Potharbadi sheds.

FORM No. 70.

Madras Presidency.

and Buildings.

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
..	RS.		MLS.	RS.	RS.
..	..	..	..	..	..
		Add A-VII (*c*) ..	..	..	840
	..		..	..	840
Rest-houses	3,440	Cart-roads	28	659	4,873
Houses for subordinate establishment	14	Others	8	15	..
Others	745		36	674	4,873
		Add A-VII (*c*) ..	..	..	185
	4,199		36	674	5,058
Rest-houses	342	Cart-roads	14	285	1,469
Houses for subordinate establishment	67	As per Accountant-General's audited figure	..	— 1	..
Others	301	Add A-VII (*c*) ..	..	..	52
	710				
As per Accountant-General's audited figure	+ 475				
	1,185		14	284	1,521
Rest-houses	298	Cart-roads	..	88	2,909
Houses for subordinate establishment	201	Others	..	97	..
Others	553		..	185	..
	1,052	As per Accountant-General's audited figure	..	+ 1	..
As per Accountant-General's audited figure	+ 1,671	Add A-VII (*c*) ..	..	..	585
	2,723		..	186	3,494
Rest-houses	1,006	Cart-roads	38	1,772	4,444
Houses for subordinate establishment	68	Bridges	..	25	..
Others	466	Others	5	133	..
	1,540		43	1,930	4,444
Add pay of establishment	974	A-VII (*c*) ..	..	..	102
	2,514		43	1,930	4,546
Rest-houses	240	Card-roads	20	340	1,135
Houses for subordinate establishment	50	Bridle-paths	1	50	..
Others	89		21	390	1,135
	379	Add A-VII (*c*) ..	..	..	409
Add cost of temporary establishment ..	366				
	745		21	390	1 544

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		Rs.		Mls.	Rs.	Rs.
Kurnool, East.	Rest-houses	4,792	Cart-roads	21½	3,310	18,302
	Houses for subordinate establishment	6,018	Others	..	57	..
	Others	4,125	A-VII (*c*)	..	..	1,634
	Total, Kurnool, East ..	14,935		21½	3,367	19,936
Kurnool, West.	Rest-houses	803	Cart-roads	⅓	195	7,097
	Houses for subordinate establishment	5,546	Add pay of supervisor	..	47	..
	Others	506				
	Total, Kurnool, West .	6,855		⅓	242	7,097
Bellary ..	Rest-houses	7,814	Cart-roads	16	560	10,612
	Houses for subordinate establishment	1,274	Bridle-paths	..	325	..
	Others	652	Deduct amount ordered as per Accountant-General's alteration memorandum.	..	— 13	..
	Total, Bellary .	9,740		16	872	10,612
Anantapur ..	Rest-houses	3,838	Cart-roads	¾	573	5,055
	Houses for subordinate establishment	320				
	Others	324				
	Total, Anantapur ..	4,482		¾	573	5,055
Total, Northern Circle.	Rest-houses	23,139	Cart-roads	85	20,271	83,721
	Houses for subordinate establishment	29,299	Bridle-paths	..	325	
	Others	10,381	Bridges	..	80	
			Others	24	179	
			Add pay of establishment ..	..	47	
				109	20,902	83,721
			As per Accountant-General's audited figure	..	— 13	..
			A-VII (*c*)	..	..	1,996
	Total .	62,819		109	20,889	85,717

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		Mls.	Rs.	Rs.
Rest-houses	730	Cart-roads	27½	275	1,916
Houses for subordinate establishment	35	As per Accountant-General's audited figure	..	56	..
Others	287		27½	219	1,916
	1,052	Add A-VII (*c*)	..	..	1,857
Add pay of establishment	646	As per Accountant-General's audited figure	..	..	+ 102
	1,698				
As per Accountant-General's audited figure	— 1				
	1,697		27½	219	3,875
Rest-houses	11	Cart-roads	5	139	536
Others	60	Add A-VII (*c*)	..	..	387
Add pay of establishment	401				
	472				
As per Accountant-General's audited figure	— 75				
	397		5	139	923
Rest-houses	800	Cart-roads	5	130	2,109
Houses for subordinate establishment	96	Add A-VII (*c*)	..	..	736
Others	659	As per Accountant-General's audited figure	..	..	1
Add pay of temporary establishment	404				
	1,959				
As per Accountant-General's audited figure	+ 20				
	1,979		5	130	2,844
Rest-houses	63	Bridle-paths	2	30	1,308
Others	34	Add cost of establishment	..	290	..
Add cost of establishment	831		2	320	1,308
	928	As per Accountant-General's audited figure	..	+ 30	..
As per Accountant-General's audited figure	+ 30		2	350	1,308
		Add A-VII (*c*)	..	..	123
		As per Accountant-General's audited figure	..	..	+ 1
	958		2	350	1,432
Rest-houses	6,930	Cart-roads	138	3,688	
Houses for subordinate establishment	531	Bridle-paths	3	80	
Others	3,194	Bridges	..	25	
Add pay of establishment	3,622	Others	13	245	
	14,277	Add pay of establishment	..	290	20,699
As per Accountant-General's audited figure	+ 2,120	As per Accountant-General's audited figure	154	4,328	
			..	26	
			154	4,302	20,699
		Add A-VII (*c*)	..	..	5,276
		As per Accountant-General's audited figure	..	..	+ 162
	16,397		154	4,302	(*a*)26,137

(*a*) Corrected in the Board's office.

Communications.

District.	New works undertaken during the year.					Total expenditure on new work.
	Buildings		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Contrac-
		Rs.		Mls.	Rs.	Rs.
Cuddapah, North.	Rest-houses	1,061	Cart-road	5½	929	2,090
	Houses for subordinate establishments	100	....	..	..	..
	Total, Cuddapah, North ..	1,161		5½	929	2,090
Cuddapah, East.	Rest-houses	146	....	..	..	878
	Houses for subordinate establishments	705	....	..	..	..
	Others	27	....	..	..	..
	Total, Cuddapah, East ..	878		..	..	878
Cuddapah, South.	Rest-houses	793	Bridle-path	3	198	1,020
	Houses for subordinate establishments	29	....	..	..	..
	Total, Cuddapah, South ..	822		3	198	1,020
Nellore ..	Rest-houses	1,535	Cart-road	..	267	2,032
	Houses for subordinate establishments	230	....	..	..	..
	Total, Nellore ..	1,765		..	267	2,032
Chingleput ..	Rest-houses	1,816	Bridle-path	2	282	2,410
	Others	300	Cart-road	..	12	..
	Total, Chingleput ..	2,116	Total ..	2	294	2,410
Arcot, North.	Rest-house	211	Cart-road	44½	652	3,048
			Bridle-path	6	369	..
			Ghat-road	2½	1,816	..
	Total, Arcot, North ..	211	Total ..	53	2,837	3,048
Arcot, South.	Houses for subordinate establishments	3,609	Cart-road	..	24	5,290
	Others	1,657				
	Total, Arcot, South ..	5,266	Total ..	..	24	5,290

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		Mls.	Rs.	Rs.
Rest-houses	186	Cart-road	3	201	1,006
Houses for subordinate establishments	283	Add A-VII (*a*) ..	..	..	319 *+ 7
	469				
Deduct cash recoveries	2				
	467				
Add cost of temporary establishments.	335				
	*+ 3				
	805		3	201	1,332
Rest-houses	60	Cart-road	22	865	1,703
		Bridle-path	3	200	..
Houses for subordinate establishments	196	Add A-VII (*a*) ..	..	*+ 19 ..	19
	256				
Add cost of temporary establishments.	363				
	619		25	1,084	1,722
Rest-houses	464	Bridle-path	..	9	703
Houses for subordinate establishments.	9				
	473				
Add cost of temporary establishments.	221				
	694		..	9	703
Rest-houses	224	....	..	*— 28	1,275
Houses for subordinate establishments	252	Add A-VII (*a*) ..	..	..	254
	476				
Add cost of temporary establishments..	850				
	*— 23				
	1,303		..	— 28	1,529
Rest-house	96	Cart-road	8	429	1,611
Houses for subordinate establishment	98	Bridle-path	..	15	..
Others	39	Ghat-road	4	264	..
	233	Add A-VII (*a*) ..	..	..	49
Add cost of temporary establishments..	670				
	903	Total ..	12	708	1,660
Rest-houses	726	Cart-road	26	175	2,863
Houses for subordinate establishments	78	Bridle-path	4½	113 *— 18	..
Others	19	Add A-VII (*a*) ..	..	..	8
	823				
	*+1,770				
	2,593	Total ..	30½	270	2,871
Head-quarter houses	67	Bridle-path	7	250	2,232
Rest-houses	1,182	Add A-VII (*a*) ..	..	..	2,634
Others	160				
	1,409				
Add pay of temporary establishments.	573				
Total ..	1,982	Total ..	7	250	4,866

* Added or deducted as per Accountant-General's audited figures.

Communications

District.	New works undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		Rs.		Mls.	Rs.	Rs.
Salem, North.	Rest-houses	5,415	Cart-road	44½	11,772	22,534
	Houses for subordinate establishments	4,709	Bridle-path	3	110	..
	Others	528				
	Total, Salem, North ..	10,652	Total ..	47½	11,882	22,534
Salem, South.	Rest-houses	1,129	Cart-road	2	334	3,157
	Houses for subordinate establishments	1,214	Bridle-path	5	480	..
	Total, Salem, South ..	2,343	Total ..	7	814	3,157
Trichinopoly.	Others	38	....	..	..	38
	Total, Trichinopoly ..	38	Total ..	..	..	38
Tanjore ..	Rest-houses	348	....	..	..	489
	Others	141				
	Total, Tanjore ..	489	Total ..	..	..	489
Guntúr ..	Rest-houses	727	....	..	..	963
	Others	236				
	Total, Guntúr ..	963	Total ..	..	..	963
Total, Central Circle.	Rest-houses	13,181	Cart-road	96½	13,990	43,949
	Houses for subordinate establishments	10,596	Bridle-path	19	1,439	
	Others	2,927	Ghat-road	2½	1,816	
	Total, Central Circle ..	26,704	Total ..	118	17,245	43,949
						Southern
South Canara.	(*b*) Rest-houses	1,043	(*a*) Cart-roads	9	1,596	..
	(*c*) Houses for subordinate establishments	46				
	(*d*) Others	18				
	Total, South Canara ..	1,107	Total ..	9	1,596	2,703

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		Mls.	Rs.	Rs.
Rest-houses	1,613	Cart-road	86	2,214	4,648
Houses for subordinate establishments	55	Bridle-path	15	40	..
Others	276	Ghat-road	..	309	..
	1,944	Add A-VII (*c*) ..	..	..	*+1,100
Add cost of temporary establishments.	141				
Total ..	2,085	Total ..	101	2,563	5,748
Rest-houses	363	Bridle-path	8	320	1,412
Houses for subordinate establishments	4	Ghat-road	..	5	..
	*+720	* Add A-VII (*c*) ..	..	..	52
Total ..	1,087	Total ..	8	325	1,464
Rest-houses	119	Bridle-path	1	51	363
Houses for subordinate establishments	113			*—333	..
Others	10	Add A-VII (*c*) ..	..	..	418
	242				
Deduct cash recoveries..	4				
	238				
Add cost of temporary establishments.	413				
	*—6				
Total ..	645	Total ..	1	*—282	781
Rest-houses	11		..	..	168
Houses for subordinate establishments	15				
Others	4				
	*+138		..	..	..
Total ..	168	Total ..	..	..	168
Rest-houses	648	Cart-road	5	172	2,340
Others	11			*+32	..
	659	Add A-VII (*c*) ..	..	..	417
Add cost of temporary establishments	1,151				*+69
	*+326				
Total ..	2,136	Total ..	5	204	2,826
Rest-houses	5,692	Cart-road	150	4,056	20,336
Head-quarter houses	67	Bridle-path	38½	998	
Houses for subordinate establishments	1,103	Ghat-road	4	578	
Others	519				
Add cost of temporary establishment.	4,717				
Deduct cash recovery	6	Add A-VII (*c*) ..	..	..	4,170
Add direction charges	12				
Variation as per Accountant-General's audited figures.	*+2,928	Variation as per Accountant-General's audited figures.	..	*—328	*+1,176
Total ..	15,032	Total ..	193	5,304	25,682
Circle.					
(*a*) Head-quarter houses	60	(*a*) Cart-roads	21	814	
(*b*) Rest-houses	223	(*d*) Bridges	..	4	
(*c*) Houses for subordinate establishments	236			818	1,791
(*d*) Others	206	Deduct cash recovery of service payments		105	
Add pay of watchers ..	358			713	
	1,083				
Deduct cash recovery of service payments	5	Add A-VII (*c*) ..	..	..	619
Total ..	1,078	Total ..	21	713	2,410

* Added or deducted as per Accountant-General's audited figures.

Communications.

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		RS.		MLS.	RS.	RS.
Malabar, North.	(*b*) Rest-houses	1,618	(*a*) Cart-roads	1	70	..
	(*c*) Houses for subordinate establishments	1,475	(*e*) Others	5	81	..
	(*d*) Others	164				
	Total, Malabar, North ..	3,257	Total ..	6	151	3,408
Malabar, South.	(*a*) Head-quarter houses ..	122	(*b*) Bridle-paths	19	260	..
	(*b*) Rest-houses	110				
	(*c*) Houses for subordinate establishments	365				
	Total, Malabar, South ..	597	Total ..	19	260	857
The Nilgiris.	(*b*) Rest-houses	4,658	(*a*) Cart-roads	1	154	..
	(*c*) Houses for subordinate establishments	810	(*d*) Bridges	..	35	..
	(*d*) Others	490				
	Total, Nilgiris, The ..	5,958	Total ..	1	189	6,147
Kollegal ..	(*b*) Rest-houses	2,491	(*a*) Cart-roads	..	12	..
	(*c*) Houses for subordinate establishments	1,170				
	(*d*) Others	106				
	Total, Kollegal ..	3,767	Total ..	..	12	3,779
Coimbatore, North.	(*b*) Rest-houses	1,447	....	..	..	..
	(*c*) Houses for subordinate establishments	210				
	(*d*) Others	819				
	Total, Coimbatore, North ..	2,476	Total ..	..	..	2,476
Coimbatore, Central.	(*a*) Head-quarter houses ..	368	....	..	..	..
	(*b*) Rest-houses	303	....	..	..	..
	(*d*) Others	307	....	..	..	..
	Total, Coimbatore, Central ..	978	Total ..	..	..	978
Coimbatore, South.	(*b*) Rest-houses	3,217	(*a*) Cart-roads	10	2,097	..
	(*c*) Houses for subordinate establishments	1,552	(*e*) Others	..	486	..
	(*d*) Others	1,463				
	Total, Coimbatore, South ..	6,232	Total ..	10	2,583	8,815

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		Mls.	Rs.	Rs.
(*a*) Head-quarter houses	162	(*a*) Cart-roads	86	1,876	4,078
(*b*) Rest-houses	810	(*b*) Bridle-paths	15	36	
(*c*) Houses for subordinate establishments	44	(*c*) Ghat-roads	1	13	
(*d*) Others	738	(*d*) Bridges	..	108	
		(*e*) Others	5	88	
Add pay of watchers ..	204 † — 1	Add A-VII (*c*) ..	..	..	104
Total ..	1,957	Total ..	107	2,121	4,182
(*a*) Head-quarter houses	93	(*a*) Cart-roads	17	606	1,466
(*b*) Rest-houses	223	(*b*) Bridle-paths	52	226	
(*c*) Houses for subordinate establishments	219				
Add pay of watchers ..	102 † — 3	Add A-VII (*c*) ..	..	..	947
Total ..	634	Total ..	69	832	2,413
(*a*) Head-quarter houses	39	(*a*) Cart-roads	53	2,553	3,692
(*b*) Rest-houses	622				
(*c*) Houses for subordinate establishments	445				
(*d*) Others	33	Add A-VII (*c*) ..	..	..	218
Total ..	1,139	Total ..	53	2,553	3,910
(*a*) Head-quarter houses	53	(*a*) Cart-roads	30	2,960 † — 9	3,661
(*b*) Rest-houses	211				
(*d*) Others	94				
Add pay of watchers ..	353 † — 1	Add A-VII (*c*) ..	..	..	121
Total ..	710	Total ..	30	2,951	3,782
(*a*) Head-quarter houses	298	(*a*) Cart-roads	64	2,910	8,854
(*b*) Rest-houses	455	(*c*) Ghat-roads	44	3,182	
(*c*) Houses for subordinate establishments	173	(*d*) Bridges	..	354	
(*d*) Others	453	Add cost of temporary establishment.	..	188	
				6,634	
Add pay of watchers ..	1,031 * + 2				
	2,412	Deduct cash recovery of service payments.	..	158	
Deduct cash recovery of service payments	34	Add A-VII (*c*) ..	..	..	884
Total ..	2,378	Total ..	108	6,476	9,738
(*b*) Rest-houses	97	(*a*) Cart-roads	20	1,901	2,174
(*d*) Others	88	(*d*) Bridges	..	102	
	†—15	(*e*) Others	..	6	
		Add A-VII (*c*) ..	..	† — 5	70
Total ..	170	Total ..	20	2,004	2,244
(*a*) Head-quarter houses	58	(*a*) Cart-roads	14	1,609	3,205
(*b*) Rest-houses	205	(*c*) Ghat-roads	..	7	
(*c*) Houses for subordinate establishments	345	(*e*) Others	8	107	
(*d*) Others	242	Pay of temporary establishment ..	..	324	..
Add pay of watchers ..	108	Add A-VII (*c*) ..	..	..	575
Total ..	958	Total ..	22	2,247	3,780

* Added as per Accountant-General's figures. † Deducted as per Accountant-General's figures.

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		Rs.		Mls.	Rs.	Rs.
Madura ..	(*b*) Rest-houses	1,454	(*a*) Cart-roads	21	3,971	..
	(*c*) Houses for subordinate establishments	1,740	(*b*) Bridle-paths	22	2,456	..
	(*d*) Others	624				
	Total, Madura ..	3,818	Total ..	43	6,427	10,245
Tinnevelly ..	(*b*) Rest-houses	957	(*a*) Cart-roads	4	1,101	..
	(*c*) Houses for subordinate establishments	2,223	(*b*) Bridle-paths	8	2,040	..
			(*c*) Ghat-roads	1	224	..
			(*e*) Others..	..	185	
	Total, Tinnevelly ..	3,180	Total ..	13	3,550	6,730
Direction ..	....	..	....	..	..	..
Total, Southern Circle.	(*a*) Head-quarter houses ..	490	(*a*) Cart-roads	46	9,001	46,138
	(*b*) Rest-houses	17,298	(*b*) Bridle-paths	49	4,756	
	(*c*) Houses for subordinate establishments	9,591	(*c*) Ghat-roads	1	224	
	(*d*) Others	3,991	(*d*) Bridges	..	35	
			(*e*) Others..	5	752	
	Total, Southern Circle ..	31,370	Total ..	101	14,768	46,138
Total, Presidency.	(*a*) Head-quarters	490	(*a*) Cart-roads	227½	43,262	..
	(*b*) Rest-houses	53,618	(*b*) Bridle-paths..	68	6,520	..
	(*c*) Houses for subordinate establishments	49,486	(*c*) Ghat-roads	3½	2,040	..
	(*d*) Others	17,299	(d) Bridges	..	115	..
			(*e*) Others	29	931	..
				328	52,868	..
			Add pay of temporary establishment	..	47	..
			Variations as per Accountant-General's audited figure ..	..	— 13	..
	Total ..	1,20,893	Total ..	328	52,902	..

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		Mls.	Rs.	Rs.
(*a*) Head-quarter houses	56	(*a*) Cart-roads	51	2,342	4,013
(*b*) Rest-houses	211	(*b*) Bridle-paths	..	199	
(*c*) Houses for subordinate establishments	309				
Add pay of watchers ..	840				
	*+ 65	Add A-VII (*c*) ..	..	..	707
Total ..	1,472	Total ..	51	2,541	4,720
(*b*) Rest-houses	796	(*a*) Cart-roads	49	951	
(*c*) Houses for subordinate establishments	135	(*b*) Bridle-paths	10	114	
		(*c*) Ghat-roads	18	720	2,927
(*d*) Others	137	(*d*) Bridges	..	75	
			..	† — 1	
		Add A-VII (*c*) ..	..	..	299
Total ..	1,068	Total ..	77	1,859	3,226
(*d*) Others	40	....	..	..	40
(*a*) Head-quarter houses	819	(*a*) Cart-roads	405	18,722	
(*b*) Rest-houses	3,853	(*b*) Bridle-paths	77	575	
(*c*) Houses for subordinate establishments	1,897	(*c*) Ghat-roads	63	3,922	
		(*d*) Bridges	..	643	
(*d*) Others	2,031	(*e*) Others	13	201	
	8,600		558	24,063	35,901
Add pay of watchers	+ 2,996	Add pay of Temporary establishment ..	..	+ 512	
Deduct cash recovery of service payments	— 39	Deduct cash recovery of service payments	..	— 263	
Variations as per Accountant-General's audited figures	+ 47	Variations as per Accountant-General's audited figures	..	— 15	
			..	24,297	..
		Add A-VII (*c*) ..	..	..	4,544
Total ..	11,604	Total ..	558	24,297	40,445
(*a*) Head-quarter houses	886	(*a*) Cart-roads	693	26,466	
(*b*) Rest-houses	16,475	(*b*) Bridle-paths	118½	1,653	
(*c*) Houses for subordinate establishments	3,531	(*c*) Ghat-roads	67	4,500	76,766
		(*d*) Bridges	..	668	
(*d*) Others	5,744	(*e*) Others	26	446	
	26,636		904½	33,733	76,766
Add pay of temporary establishment ..	11,335	Add pay of temporary establishment ..	..	802	..
,, Direction charges	12	Variations as per Accountant-General's audited figures	..	— 369	..
,, as per Accountant-General's audited figure	5,095	Deduct cash recovery made	..	263	..
Deduct cash recovery	45				
		Add A-VII (*c*) ..	..	..	17,324
Total ..	43,033	Total ..	904½	33,903	94,090

* Added as per Accountant-General's figures. † Deducted as per Accountant-General's figures

ANNUAL

Forest Department,

REGISTER of Breaches of Forest

District.		Cases pending from 1908–1909.	New cases of the year.					Total cases.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Ganjám	A	* 90	2	(a) 198	24	6	230	320
	B	* 85	4	(b) 356	56	(c) 7	423	508
	C	..	..	40	..	..	(h) 40	..
	Total ..	175	6	594	80	13	693	828
Vizagapatam ..	A	* 12	3	100	8	3	114	126
	B	* 7	1	218	59	15	293	300
	C	..	..	..	..	..	..	..
	Total ..	19	4	318	67	18	407	426
Gódávari, Upper.	A	1	..	5	..	1	6	7
	B	..	..	9	1	..	10	10
	C	..	..	-	..	..	..	..
	Total ..	1	..	14	1	1	16	17
Gódávari, Lower.	A	* 12	4	21	8	4	37	49
	B	* 35	..	164	54	35	253	288
	C	..	96	11	..	..	107	..
	Total ..	47	100	196	62	39	397	337
Kistna	A	* 22	..	48	23	4	75	97
	B	* 41	..	83	147	17	247	288
	C	.	..	7	8	4	19	..
	Total ..	63	..	138	178	25	341	385
Kurnool, East ..	A	26	..	48	57	31	136	162
	B	46	..	40	92	71	203	249
	C	..	..	3	1	..	4	..
	Total ..	72	..	91	150	102	343	411
Kurnool, West ..	A	71	1	185	65	38	289	360
	B	56	..	149	123	18	290	346
	C	..	..	33	41	5	79	..
	Total ..	127	1	367	229	61	658	706
Bellary	A	37	1	38	34	..	73	110
	B	265	..	342	458	19	819	1,084
	C	..	10	13	46	..	69	..
	Total ..	302	11	393	538	19	961	1,194

A = Cases taken into Court. B = Cases

* The variations between the closing balance of 1908–1909 and

† Cases withdrawn under the orders

(a) Excludes 25 cases in the Parlákimedi Maliahs.
(b) Excludes 60 do.
(c) Excludes 4 do.
(h) Excludes 14 undetected cases in the Parlákimedi Maliahs.

FORM No. 71.

Madras Presidency.

Rules during 1909–1910.

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE.						
(*d*) 188	519	(*f*) 31	128	219	647	97
				† 4	† 7	
(*e*) 343	1,002	..	..	343	1,002	71
				†(*g*) 94	† 370	
..	..	..	..	..	..	..
531	1,521	31	128	562	1,649	168
				† 98	† 377	
107	351	8	13	115	364	11
258	668	..	..	258	668	39
				† 3	† 3	
..	..	..	..	..	..	..
365	1,019	8	13	373	1,032	50
				† 3	† 3	
5	12	..	..	5	12	2
10	27	..	..	10	27	..
..	..	..	..	..	..	..
15	39	..	..	15	39	2
26	96	3	11	29	107	19
				† 1	† 2	
223	498	..	..	223	498	31
				† 34	† 100	
..	..	..	..	..	..	..
249	594	3	11	252	605	50
				† 35	† 102	
64	292	4	6	68	298	29
230	632	..	..	230	632	58
..	..	..	..	..	..	..
294	924	4	6	298	930	87
124	369	10	31	134	400	28
177	414	..	..	177	414	30
				† 42	† 271	
..	..	..	..	..	..	
301	783	10	31	311	814	58
				† 42	† 271	
240	1,020	60	209	300	1,229	60
254	750	..	..	254	750	50
				† 42	† 98	
..	..	..	..	..	..	..
494	1,770	60	209	554	1,979	110
				† 42	† 98	
91	381	12	64	103	445	7
916	2,718	..	..	916	2,718	81
				† 87	† 276	
..	..	..	..	..	..	..
1,007	3,099	12	64	1,019	3,163	88
				† 87	† 276	

compounded. C = Cases undetected.
these figures are due to transfers between heads A and B.
of the District Forest-officer.

(*d*) Excludes 22 cases in the Parlákimedi Maliahs in which conviction was secured.
(*e*) Excludes 28 compounded cases in the Parlákimedi Maliahs.
(*f*) Excludes 2 cases of the Parlákimedi Maliahs in which prosecution failed.
(*g*) Excludes 14 cases withdrawn in the Parlákimedi Maliahs.

Register of Breaches of

District.		Cases pending from 1908–1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Anantapur ..	A	278	..	203	188	19	410	688
	B	..	1	190	269	5	465	465
	C	..	27	..	..	..	27	..
	Total ..	278	28	393	457	24	902	1,153
Grand Total ..	A	549	11	846	407	106	1,370	1,919
	B	535	6	1,551	1,259	187	3,003	3,538
	C	..	133	107	96	9	345	..
	Grand Total ..	1,084	150	2,504	1,762	302	4,718	5,457
								CENTRAL
Cuddapah, North ..	A	(c) 16	..	30	23	1	54	70
	B	(c) 29	..	152	68	..	220	249
	C	..	..	4	..	..	4	..
	Total ..	45	..	186	91	1	278	319
Cuddapah, East ..	A	(c) 18	3	58	30	..	91	109
	B	(c) 72	..	310	156	2	468	540
	C	..	88	28	1	1	118	..
	Total ..	90	91	396	187	3	677	649
Cuddapah, South ..	A	(c) 113	..	79	58	..	137	250
	B	(c) 96	..	114	133	7	254	350
	C	..	..	..	..	..	..	..
	Total ..	209	..	193	191	7	391	600
Nellore	A	(c) 121	1	102	137	6	246	367
	B	(c) 204	..	458	647	19	1,124	1,328
	C	..	..	7	69	3	79	..
	Total ..	325	1	567	853	28	1,449	1,695
Chingleput ..	A	8	1	15	14	4	34	42
	B	34	1	558	245	18	822	856
	C	..	..	4	..	..	4	..
	Total ..	42	2	577	259	22	860	898
Arcot, North ..	A	(c) 167	4	388	195	14	601	768
	B	(c) 383	1	1,721	1,142	47	2,911	3,294
	C	..	210	2	..	..	212	..
	Total ..	(d) 550	215	2,111	1,337	61	3,724	4,062

A = Cases taken into Court. B = Cases compounded. C = Cases undetected.

(b) Transferred to the

(c) The variations between the closing balance of 1908–1909 and the

(d) The variations between the closing balance of 1908–1909 and the opening balance of this

(e) The discrepancy between the total of the figures in

(f) The discrepancy between the figure entered in

Rules during 1909-1910—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
403	878	98	225	501	1,103	125
				† 62	† 126	
465	1,394	..	..	465	1,394	..
..	..	..	..	..	..	..
868	2,272	98	225	966	2,497	125
				† 62	† 126	
1,248	3,918	226	687	1,474	4,605	378
				† 67	† 135	
2,876	8,103	..	..	2,876	8,103	360
				† 302	† 1,118	
..	..	..	..	..	..	..
4,124	12,021	226	687	4,350	12,708	738
				† 369	† 1,253	
CIRCLE.						
54	107	5	37	59	144	11
168	487	..	..	168	487	59
				† 18	† 36	
..	..	..	..	(*b*) 4	..	..
222	594	5	37	227	631	70
				† 18	† 36	
				(*b*) 4	..	
52	160	11	70	63	230	46
410	839	..	..	410	839	75
				† 55	† 129	
..	..	..	..	..	..	..
462	999	11	70	473	1,669	121
				† 55	† 129	
98	236	28	118	126	354	124
281	513	..	..	281	513	32
				† 37	† 50	
..	..	..	..	..	..	..
379	749	28	118	407	867	156
				† 37	† 50	
239	(*e*) 738	28	(*e*) 71	267	(*e*) 828	86
				† 14	† 17	
845	(*f*) 1,922	..	..	845	(*f*) 1,923	351
				† 132	† 324	
..	..	..	..	..	..	..
1,084	2,660	28	71	1,112	2,751	437
				† 146	† 341	
26	115	8	39	34	154	8
722	1,639	..	..	722	1,639	67
				† 67	† 168	
..	..	..	..	..	..	..
748	1,754	8	39	756	1,793	75
				† 67	† 168	
514	1,193	29	81	543	1,274	223
				† 2	† 6	
2,737	4,727	..	..	2,737	4 727	465
				† 92	† 178	
..	..	..	..	..	..	..
3,251	5,920	29	81	3,280	6,001	688
				† 94	† 179	

† Cases withdrawn under the orders of the District Forest-Officer.

Revenue Department.
opening balance of this year are due to transfers between classes A and B.
year are due to the omission of 23 under A and 13 under B in the last year's district return.
columns 10 and 12 and the figure in column 14 has not been explained.
column 10 and that in column 14 has not been explained.

Register of Breaches of Forest

District.		Cases pending from 1908-1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								CENTRAL
Arcot, South ..	A	(c) 168	..	302	49	9	360	528
	B	(c) 418	3	1,744	611	35	2,393	2,811
	C	(c) 7	33	82	..	3	118	..
	Total ..	593	36	2,128	660	47	2,871	3,339
* Salem, North ..	A	51	4	241	49	26	320	371
	B	203	1	488	168	25	682	885
	C	..	..	..	4	..	4	..
	Total ..	254	5	729	221	51	1,006	1,256
* Salem, South ..	A	81	5	180	44	19	248	329
	B	80	1	283	110	28	422	502
	C	..	82	9	..	..	91	..
	Total ..	161	88	472	154	47	761	831
Trichinopoly ..	A	(c) 37	1	73	51	2	127	164
	B	(c) 297	..	1,234	542	10	1,786	2,083
	C	(c) 12	..	16	19	1	36	..
	Total ..	(d) 346	1	1,323	612	13	1,949	2,247
* Tanjore	A	2	..	5	4	1	10	12
	B	149	..	583	72	10	665	814
	C	..	..	24	10	3	37	..
	Total ..	151	..	612	86	14	712	826
* Guntúr	A	(c) 42	..	63	70	7	140	182
	B	(c) 179	..	327	433	16	776	955
	C	..	..	..	.	..	..	..
	Total ..	(e) 221	..	390	503	23	916	1,137
Total ..	A	824	19	1,536	724	89	2,368	3,192
	B	2,144	7	7,972	4,327	217	12,523	14,667
	C	19	413	176	103	11	703	..
	Grand Total ..	2,987	439	9,684	5,154	317	15,594	17,859
								SOUTHERN
								Reserved
South Canara ..	A	(f) 40	18	120	83	18	239	279
	B	(f) 134 (g) —10	17	570	59	28	674	798
	C	..	169	..	..	..	169	..
	Total ..	164	204	690	142	46	1,082	1,077

A = Cases taken into Court. B = Cases

* Figures against these districts do not include offences in unreserved

† Cases withdrawn under the

(b) Transferred to the

(c) The variations between the closing balance of 1908-1909 and the opening

(d) The variation between the closing balance of the previous year and the opening balance of this year is

(e) The variation between the closing balance of the previous year and the opening balance of this year is

(f) The variations between the closing balance of 1908-1909 and these

(g) Transferred

(h) The discrepancy between the total of the figures in columns 10 and 12

Rules during 1909–1910—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
365	859	27	60	392	919	130
				† 6	† 9	
2,050	4,157	..	..	2,050	4,157	551
				† 210	† 314	
..	..	..	..	..	..	..
2,415	5,016	27	60	2,442	5,076	681
				† 216	† 323	
166	343	45	144	211	487	160
752	1,388	..	..	752	1,388	
				† 37	..	96
..	..	..	..	..	..	..
918	1,731	45	144	963	1,875	256
				† 37	..	
213	822	24	115	237	937	77
				† 15	† 59	
323	1,090	..	..	323	1,090	136
				† 43	† 100	
..	..	..	..	..	..	..
536	1,912	24	115	560	2,027	213
				† 58	† 159	
79	146	37	166	116	312	48
1,691	3,273	..	..	1,691	3,273	364
				† 28	† 41	
..	..	..	..	..	..	..
1,770	3,419	37	166	1,807	3,585	412
				† 28	† 41	
7	13	3	3	10	16	2
712	889	..	..	712	889	102
..	..	..	..	..	..	..
719	902	3	3	722	905	104
122	414	12	61	134	475	48
651	2,499	91	450	742	2,949	213
..	..	..	..	..	..	..
773	2,913	103	511	876	3,424	261
1,935	(*h*) 5,146	257	(*h*) 965	2,192	(*h*) 6,130	963
				† 37	† 91	
11,342	(*h*) 23,423	91	(*h*) 450	11,433	(*h*) 23,874	2,511
				† 719	† 1,335	
				(*b*) 4	..	
..	..	..	..	..	..	..
13,277	(*h*) 28,569	348	(*h*) 1,415	13,625	(*h*) 30,004	3,474
				† 756	† 1,426	
				(*b*) 4	..	..
CIRCLE.						
Lands.						
63	127	22	47	85	174	8
				† 186	† 390	
642	1,540	..	..	642	1,540	156
..	..	..	..	..	..	..
705	1,667	22	47	727	1,714	164
				† 186	† 390	

compounded. C = Cases undetected.
lands as information has not been received from Collectors.
orders of the District Forest Officer.
Revenue Department.
balance of this year are due to transfers between classes A and B.
due to the transfer of 140 cases relating to offences of poramboke tree-felling to the Revenue Divisional-Officers.
due to the transfer of 41 cases to the Revenue Department and to the inclusion of two undetected cases of last year.
figures are due to transfers between heads A and B.
to unreserved lands.
and the figure in column 14 has not been explained.

Register of Breaches of Forest

District.		Cases pending from 1908-1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								SOUTHERN *Reserved*
North Malabar ..	A	2	..	2	1	..	3	5
	B	1	..	1	2	1	4	5
	C	..	1	1	..	..	2	..
	Total ..	3	1	4	3	1	9	10
South Malabar ..	A	(a) 3	2	6	2	5	15	18
	B	(a) 2	..	4	4	..	8	10
	Total ..	5	2	10	6	5	23	28
The Nilgiris ..	A	(a) 16	2	70	19	16	107	123
	B	(a) 15	6	94	32	14	146	161
	C	..	12	2	8	1	23	..
	Total ..	31	20	166	59	31	276	284
Kollegal	A	16	6	31	43	26	106	(c) 122
	B	21	..	87	128	13	228	249
	C	..	1	..	..	..	1	..
	Total ..	37	7	118	171	39	335	371
Coimbatore, North.	A	72	5	123	55	15	198	270
	B	80 (b)—26	..	142	153	15	310	364
	C	..	25	..	..	..	25	..
	Total ..	126	30	265	208	30	533	634
Coimbatore, Central.	A	(a) 14	2	119	68	26	215	229
	B	(a) 42	1	105	86	21	213	255
	C	..	9	..	..	..	9	..
	Total ..	56	12	224	154	47	437	484
Coimbatore, South.	A	7	..	42	9	3	54	61
	B	..	..	75	25	15	115	115
	C	..	10	..	..	..	10	..
	Total ..	7	10	117	34	18	179	176
Madura	A	82	1	68	23	32	124	206
	B	219	1	452	228	53	734	953
	C	..	28	..	..	..	28	..
	Total ..	301	30	520	251	85	886	1,159
Tinnevelly ..	A	16	1	15	10	5	31	47
	B	131	1	365	327	51	744	875
	C	..	41	1	216	1	259	..
	Total ..	147	43	381	553	57	1,034	922

A = Cases taken into Court. B = Cases

(a) The variations between the closing balance of 1908 1909

(b) Transferred to

(c) Corrected in the Board's office

Rules during 1909-1910—*cont.*

Disposed of during the year.						
Convictions.		Acquittals.		Total.		Cases pending at the close of the year.
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
Lands—cont.						
1	1	..	..	1	1	4
4	8	..	..	4	8	1
..	..	..	..	..	..	..
5	9	..	..	5	9	5
9	19	..	..	9	19	7
9	22	..	..	† 2	† 15	1
				9	22	
18	41	..	..	18	41	8
				† 2	† 15	
82	313	6	12	88	325	35
106	244	..	..	106	244	25
..	..	..	..	† 30	† 62	..
				..	..	
188	557	6	12	194	569	60
				† 30	† 62	
74	189	17	40	91	229	15
211	416	..	..	† 16	† 42	38
..	..	..	..	211	416	..
				..	..	
285	605	17	40	302	645	53
				† 16	† 42	
199	748	9	21	208	769	60
				† 2	† 2	
286	745	..	..	286	745	53
..	..	..	..	† 25	† 91	..
				..	..	
485	1,493	9	21	494	1,514	113
				† 27	† 93	
180	524	10	35	190	559	39
190	648	..	..	190	648	51
..	..	..	..	† 14	† 50	..
				..	..	
370	1,172	10	35	380	1,207	90
				† 14	† 50	
50	139	..	..	50	139	11
55	176	..	..	55	176	45
..	..	..	..	† 15	† 55	..
				..	..	
105	315	..	..	105	315	56
				† 15	† 55	
102	252	16	69	118	321	88
647	2,175	..	..	647	2,175	236
..	..	..	..	† 70	† 93	..
				..	..	
749	2,427	16	69	765	2,496	324
				† 70	† 93	
39	111	2	4	41	115	6
669	1,584	..	..	669	1,584	116
..	..	..	..	† 90	† 340	..
				..	..	
708	1,695	2	4	710	1,699	122
				† 90	† 340	

compounded. C = Cases undetected.
and these figures are due to transfers between heads A and B.
unreserved lands.
† Withdrawn under the orders of the District Forest or Revenue Divisional Officer.

Register of Breaches of Forest

District.		Cases pending from 1908–1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								SOUTHERN
								Reserved
Total for reserved forests.	A	268	37	596	313	146	1,092	1,360
	B	609	26	1,895	1,044	211	3,176	3,785
	C	..	296	4	224	2	526	..
	Total ..	877	359	2,495	1,581	359	4,794	5,145
								Unreserved
South Canara ..	A	3	..	23	..	..	23	26
	B	(a) 10	..	69	..	..	69	79
	Total ..	13	..	92	..	..	92	105
Malabar, North ..	A	..	..	3	..	..	3	3
	B	..	..	5	..	..	5	5
	C	..	..	..	..	2	2	..
	Total ..	..	..	8	..	2	10	8
Coimbatore, North.	A	1	..	5	..	..	5	6
	B	(a) 26	..	15	..	..	15	41
	Total ..	27	..	20	..	..	20	47
Tinnevelly ..	B	..	..	49	..	..	49	49
Total for unreserved lands.	A	4	..	31	..	..	31	35
	B	36	..	138	..	..	138	174
	C	..	..	..	..	2	2	..
	Total ..	40	..	169	..	2	171	209
Total, Southern Circle, for reserved forests and unreserved lands	A	272	37	627	313	146	1,123	1,395
	B	645	26	2,033	1,044	211	3,314	3,959
	C	..	296	4	224	4	528	..
	Total ..	917	359	2,664	1,581	361	4,965	5,354
Total, Presidency ..	A	1,645	67	3,009	1,444	341	4,861	6,506
	B	3,324	39	11,556	6,630	615	18,840	22,164
	C	19	842	287	423	24	1,576	..
Grand total, Presidency ..		4,988	948	14,852	8,497	980	25,277	28,670

A = Cases taken into Court. B = Cases compounded. C = Cases undetected.

(a) Transferred to

Rules during 1909–1910—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—cont.						
Lands—cont.						
799	2,423	82	228	881	2,651	273
				† 206	† 449	
2,819	7,558	..	..	2,819	7,558	722
				† 244	† 691	
..	..	..	..	..	..	..
3,618	9,981	82	228	3,700	10,209	995
				† 450	† 1,140	
Lands.						
6	6	9	19	15	25	..
				† 11	† 11	
48	65	..	..	48	65	31
54	71	9	19	63	90	31
				† 11	† 11	
3	3	..	..	3	3	..
5	5	..	..	5	5	..
..	..	..	..	..	..	..
8	8	..	..	8	8	..
4	4	2	5	6	9	..
22	29	..	..	22	29	19
26	33	2	5	28	38	19
48	83	..	..	48	83	1
13	13	11	24	24	37	..
				† 11	† 11	
123	182	..	..	123	182	51
..	..	..	..	..	..	..
136	195	11	24	147	219	51
				† 11	† 11	
812	2,436	93	252	905	2,688	273
				† 217	† 460	
2,942	7,740	..	..	2,942	7,740	773
				† 244	† 691	
..	..	..	..	..	..	..
3,754	10,176	93	252	3,847	10,428	1,046
				† 461	† 1,151	
3,995	11,500	576	1,904	4,571	13,404	1,614
				† 321	† 686	
17,251	39,717	..	..	17,251	39,717	3,644
				† 1,265	† 3,144	
				(*b*) 4	..	
..	..	..	..	..	..	..
21,246	51,217	576	1,904	21,822	53,121	5,258
				† 1,586	† 3,830	
				(*b*) 4	..	

unreserved lands.

† Withdrawn under the orders of the District Forest or Revenue Divisional Officer.

APPENDIX to Form No. 71 (Statement No. II prescribed by the Government of India).

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Northern Circle.	1	3 acres.	Intentional.	Withdrawn.	....	....	These cases were withdrawn for want of evidence.
Ganjám ..	2	200 „ ..	Careless ..	Acquitted under section 245, Criminal Procedure Code.	....	....	
	3	60 „ ..	Do.	Pending ..	....	....	
	4	..	Intentional.	Withdrawn.	....	....	Do.
	5	..	Careless ..	Compounded.	Section 21 of the Madras Forest Act.	....	
	6	..	Do.	Pending ..	....	....	
Vizagapatam.	1	25 acres ..	Intentional.	Convicted ..	Section 21 of the Madras Forest Act.	Fined Rs. 10 or to suffer 20 days' rigorous imprisonment in default.	
	2	1·75 „ ..	Do.	Do. ..	....	Fined Rs. 10 or to suffer 10 days' rigorous imprisonment in default.	
	3	30 „ ..	Do.	Acquitted ..	....	....	
Gódavari, Lower.	1	1·5 „ ..	Careless in burning Podu.	..	....	....	Pending with Magistrate.
	2	·01 acre.	Do.	..	....	....	Do.
	3	10 acres ..	Careless ..	..	....	....	Do.
	4	*Nil.*	Do.	..	....	....	Do.
Kurnool, West.	1	20 acres ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Accused sentenced to pay a fine of Rs. 5 or in default to suffer simple imprisonment for a week.	The fire was set by the accused in such a manner as to endanger the Gani forest reserve.
Bellary ..	1	·01 acre ..	Careless ..	Do. ..	Do.	Fined Rs. 2 accused being a boy of about 8 years.	
Anantapur.	1	5 acres ..	Intentional.	..	....	The party agreed to pay a composition fee of Rs. 10 and paid the amount accordingly.	
Central Circle.							
Cuddapah, East.	1	680	Intentional.	Acquitted ..	....	The accused was given the benefit of the doubt and acquitted.	
	2	4 square yards.	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act, V of 1882.	The accused was fined Rs. 2.	
	3	..	Do.	Pending ..	....	The case is pending with the Taluk Magistrate, Sidhout.	
Nellore ..	1	0·16	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Each of the accused was sentenced to pay a fine of Rs. 5.	
Arcot, North.	1	10	Intentional.	Do. ..	Section 21 (*b*) of the Madras Forest Act.	Rigorous imprisonment for one month.	
Arcot, South.	1	28	Carelessness.	Compounded for Rs. 10.	....	....	
Salem, North.	1	240	Intentional.	Acquitted ..	....	....	
	2	20	Careless and intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to undergo rigorous imprisonment for three months.	
	3	*Nil* (accused detected while the reserve was set on fire).	Intentional.	Acquitted ..	....	....	
	4	2	Do.	Do. ..	....	....	
	5	..	..	Pending ..	....	....	

Appendix to Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Central Circle—cont.	1	No area was burnt, but the offenders were caught in the attempt to set fire.	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to a fine of Rs. 25, in default to rigorous imprisonment for six weeks.	
Salem, South.	2	Do.	..	Pending ..	....	Since disposed of. Convicted and sentenced to a fine of Rs. 50, in default to rigorous imprisonment for six weeks under section 21 (*b*) of the Madras Forest Act.	
	3	Do.	..	Do. ..	....	....	
	4	10·35	Intentional.	Withdrawn.	....	....	
	5	No area was burnt, but the offenders were caught in the attempt to set fire.	Do.	Do.	....	....	
Trichinopoly.	1	..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 10.	
Southern Circle.	* 1	60 acres ..	Intentional.	Acquitted ..	....	....	
	* 2	50 ,, ..	Do.	Do. ..	....	....	
	* 3	..	Carrying a torch.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 12.	
	* 4	20 acres ..	Do.	Acquitted ..	....	....	
	* 5	72 ,, ..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 20.	
	* 6	84 ,, ..	Do.	Compounded for Rs. 4.	....	....	
	* 7	10 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 80.	
	* 8	200 ,, ..	Carelessness.	Do. ..	Do.	,, Rs. 120.	
	* 9	16 ,, ..	Do.	Do ..	Do.	,, Rs. 24.	
	* 10	30 ,, ..	Intentional.	Acquitted ..	....	....	
	* 11	50 ,, ..	Do.	Do. ..	....	....	
	* 12	..	Carrying a naked torch.	Compounded for Rs. 9.	....	....	
	* 13	20 acres ..	Carelessness.	Acquitted ..	....	....	
	* 14	10 ,, ..	Do.	Do. ..	....	....	
	* 15	..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 6.	
	* 16	..	Do.	Compounded for Rs. 2.	....	....	
Canara, South.	17	8 acres ..	Do.	Compounded for Rs. 4.	....	....	
	18	100 ,, ..	Do.	Componnded for Rs. 3.	....	....	
	19	1 acre ..	Do.	Pending ..	....	....	
	20	..	Carrying a naked torch.	Acquitted ..	....	....	
	21	6 acres ..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 25.	
	22	2 ,, ..	Intentional.	Pending ..	....	....	
	23	1 acre ..	Carelessness.	Do. ..	....	....	
	24	10 acres ..	Do.	Do. ..	....	....	
	25	10 ,, ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 10.	
	26	6 ,, ..	Do.	Acquitted ..	....	....	
	27	18 ,, ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 12.	
	28	18 ,, ..	Do.	Do. ..	Do.	,, Rs. 10.	
	29	6 ,, ..	Do.	Compounded for Rs. 4	....	....	
	30	6 ,, ..	Do.	Compounded for Rs. 5	....	....	
	31	..	Do.	Pending ..	....	....	
	32	150 acres ..	Do.	Acquitted ..	....	....	
	33	..	Intentional.	Compounded for As. 8	....	....	

*(Pending cases of 1908–1909.

Appendix to Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number of fire.	Number of acres burnt.	Character of offences (whether careless or intentional).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Southern Circle—cont.	34	..	Intentional..	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to suffer two months' rigorous imprisonment.	
	35	2 acres ..	Carelessness.	Compounded for Rs. 3.	....	....	
	36	..	Do.	Pending ..	....	....	
	37	30 acres ..	Do.	Do. ..	....	....	
	38	..	Carrying torches.	Do. ..	....	....	
Canara, South—	39	100 square yards.	Carelessness.	Do. ..	....	....	
	40	Do.	Do.	Do. ..	....	....	
	41	150 square yards.	Do.	Do. ..	....	....	
	†42 to 49	274 acres ..	Do.	Withdrawn.	....	....	
	50 to 52	210 ,, ..	Intentional.	Do. ..	....	....	
	53	·10 acre ..	Carrying a torch.	Do. ..	....	....	
Malabar, North.	* 1	681 acres ..	Intentional.	Pending ..	....	....	
Malabar, South.	1	·08 acre ..	Carelessness.	Convicted ..	Rule 2 under section 26 of Act V of 1882.	Two accused fined Rs. 50 each.	
	2	Not reported.	Intentional.	Do. ..	Section 21 (*b*) of the Madras Forest Act.	One accused was sentenced to suffer three months' rigorous imprisonment.	
The Nilgiris.	1	1 acre ..	Intentional.	Withdrawn.	....	....	
	2	1 ,, ..	Carelessness.	Compounded.	....	....	
	3	2 acres ..	Do.	Do.	....	....	
	4	500 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Accused sentenced to suffer one month's rigorous imprisonment.	
	5	1 acre ..	Carelessness.	Compounded.	....	....	
	6	2 acres ..	Do.	Do.	....	....	
	7	2 ,, ..	Do.	Do.	....	....	
	8	Not reported.	Not reported.	Pending ..	....	....	
Kollegal ..	1	320 acres ..	Intentional.	Pending ..	....	....	
	2	10 ,, ..	Carelessness.	Do. ..	....	....	
	3	240 ,, ..	Intentional.	Withdrawn.	....	....	
	4	120 ,, ..	Do.	Convicted ..	Sections 21 and 23 of the Madras Forest Act.	Two accused fined—one Rs. 5 and the other Rs. 20.	
	5	..	Carelessness.	Compounded for Rs. 10.	....	....	
	6	300 acres ..	Do.	Withdrawn.	....	....	
Coimbatore, North.	* 1	Not known.	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Two accused fined Rs. 10 each, in default to suffer rigorous imprisonment for one week.	
	* 2	600 acres ..	Intentional.	Withdrawn.	....	....	
	* 3	Not known.	Do.	Pending ..	....	....	
	4	23·50 acres.	Carelessness.	Convicted ..	Section 21 (*c*) of the Madras Forest Act.	One accused fined Rs. 30, in default 30 days' rigorous imprisonment; two acquitted.	
	5	60 sq. feet ..	Intentional.	Do. ..	Do.	Two accused fined Rs. 20 or to suffer simple imprisonment till rising of Court.	
	6	960 acres ..	Do.	Pending ..	....	....	
	7	450 ,, ..	Do.	Convicted ..	....	One accused fined Rs. 25 or to suffer rigorous imprisonment for ten days and the other Rs. 10 or to suffer ten days' rigorous imprisonment.	
	8	480 ,, ..	Carelessness.	Pending ..	....	....	
Coimbatore, Central.	1	6 acres ..	Carelessness.	Acquitted ..	....	....	
	2	225 ,, ..	Do.	Withdrawn.	....	....	
	3	40 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 45.	
Madura ..	1	Not known.	Intentional.	Convicted ..	....	Two accused fined Rs. 50 each.	
	2	Do.	Carelessness.	Withdrawn.	....	....	
	* 3	160 acres ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	One accused fined Rs. 50.	
Tinnevelly	1	..	Intentional.	Pending ..	....	....	
	2	..	Do.	Compounded at Rs. 5 per offender.	....	....	

* Pending cases of 1908–1909. † Include two pending cases of last year.

Annual Form No. 72.

Forest Department, Madras Presidency.

Area of Forest Tracts protected from Fire during 1909-1910.

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle.		Acs.	Acs.	Acs.	Acs.	Rs.	
Ganjám Special protection—Mojjagada range.	1. Dhimirijholi	1903	512	512	..	512	55	
	2. Rambha	1903	776	777	..	777	57	
	3. Kaliamba and its extension.	1904	340	580	181	399	52	
	4. Baiballi	1903	1,326	1,330	..	1,330	46	
	5. Darpangia and its extension.	1903	1,600	1,700	12	1,688	64	
	6. Gulleri	1901	4,525	4,686	3	4,683	191	
	7. Tilike	1903	1,190	1,230	64	1,166	86	
	8. Outer boundary 60' line.	1909	..	10,000	..	10,000	145	
	Total, Mojjagada	..	10,269	20,815	260	20,555	696	
Kukuluba range.	1. Chendragiri	1903	6,600	6,600	27	6,573	361	
	2. Brahmanasayi	1901	2,800	2,800	5	2,795	136	
	3. Ambazora	1903	2,000	2,000	..	2,000	44	
	4. Gogodo and its extension.	1903	3,600	3,600	6	3,594	80	
	5. Kullada	1904	164	184	..	184	18	
	6. Jagannadhaprasad	1904	374	590	1	589	40	
	7. Outer boundary 60' line.	1909	..	16,900	..	16,900	158	
	Total, Kukuluba	..	15,538	32,674	39	32,635	837	
Buguda range.	1. Panchabhuti	1903	1,672	1,672	1	1,671	83	
	2. Kurcholi	1901	6,140	6,180	..	6,180	163	
	3. Kriamba	1903	5,455	5,455	3	5,452	158	
	4. Vishnuchakram	1908	100	100	..	100	15	
	5. Bodochandora	1909	..	100	..	100	29	
	6. Outer boundary 60' line.	1909	..	5,000	..	5,000	136	
	Total, Buguda	..	13,367	18,507	4	18,503	581	
Surada range.	1. Bondagocha	1904	140	140	..	140	15	
	2. Pippalaponka	1903	2,043	2,070	90	1,980	210	
	3. Rogada	1903	4,460	2,560	198	2,362	231	
	4. Mandopitta	1903	1,150	1,150	15	1,135	123	
	5. Vinjigiri	1908	387	387	..	387	35	
	6. Malati	1908	204	214	..	214	18	
	7. Hukuma	1908	55	60	..	60	6	
	8. Raipada	1909	..	100	..	100	5	
	9. Outer boundary 60' line.	1909	..	5,000	..	5,000	140	
	Total, Surada	..	8,439	11,681	303	11,378	783	
Pondakhol range.	Dowgam	1903	(a) 290	290	..	290	58	
	Total, Ganjám, Special.	..	47,903	83,967	606	82,361	(a) 2,955 * + 2	
Vizagapatam Special protection.	1. Dharakonda	1901-1902	18,284	46,880	11,800	35,080	696	
	2. Sanivaram	1901-1902.	7,872	31,488	5,951	25,537		
	3. Pedimikonda	1901-1902.	3,311	3,311	..	3,311		
	4. Narasapatam fuel working circle.	1901-1902.	1,400	1,400	3	1,397	57	
	5. Arlova and its extension.	1901-1902.	67	4,162	6	4,156	51	
	6. Peddapalli reserve	1902-1903.	935	9,077	..	9,077	128	
	7. Coupes in Venkatapuram working circle.	1907-1908.	720	750	5	745	139	
	8. Coupes in Antikonda.	1903-1904.	302	430	9	421	63	
	9. Coupes in Chinagora.	1907-1908.	125	300	5	295	56	
	10. Coupes in Itchapuram.	1905-1906.	15	68	31	37	18	
	11. Coupes in Barua reserve.	1906-1907.	26	43	8	35	27	
	12. Coupes in Palakonda.	1907-1908	20	54	..	54	9	
	13. Kadagandy reserve and its extension.	1900-1901.	8,714	11,064	80	10,984	255	
	14. Samaralli block	1909-1910.	..	2,625	..	2,625	11	
	15. Vemagiri experimental grass plot.	1909-1910.	..	20	..	20	7	
	16. Barua extension No. II.	1909-1910.	..	162	..	162	67	
	17. Sal-bearing area in Barnakonda.	1909-1910.	..	450	..	450		
	Total, Vizagapatam, Special.	..	41,791	112,284	17,898	94,386	1,584	

(a) Corrected in the Board's office.

* Added as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		Acs.	Acs.	Acs.	Acs.	Rs.	
Vizagapatam General protection.	18. Karaka reserve, Madalammakonda.	1909-1910.	..	11,669	4,500 30	7,139	..	
	19. Sitakhandi		..	2,368	..	2,368	..	
	20. Sarugudu, blocks I to IV.		..	14,576	..	14,576	..	
	21. Kodavatipudi and Venkatapuram less coupes		..	1,302	..	1,302	..	
	22. Kakarlakonda ..		..	1,924	..	1,924	..	
	23. Boddapalem		..	380	..	380	..	
	24. Antikonda excluding coupes.		..	6,539	164	6,375	..	
	25. Donabai reserve ,,		..	125	3	122	..	
	26. Chinamangalapuram.		..	51	..	51	..	
	27. Garugubilli ..		..	27	27	..	..	
	28. Chinnagora reserve less coupes.		..	2,083	4	2,079	..	
	29. Itchápuram less coupes.		..	832	..	832	..	
	30. Barna and its extension less coupes.		..	13,474	660	12,814	..	
	31. Palaconda reserve less coupes.		..	4,526	118	4,408	..	
	32 Rankuhanumantapuram.		..	1,519	..	1,519	..	
	Total, Vizagapatam General.	..	..	61,395	5,506	55,889	..	
	Grand Total, Vizagapatam Special and General.	..	41,791	173,679	23,404	150,275	1,584 (*a*) + 30	
Godávari, Upper, General protection—Bhadráchalam range.	1. Malkanapally reserve.	1905 ..	4,116	4,116	..	4,116	309	
	2. Dummagudem ,,	1887 ..	4,308	4,308	..	2,308	399	
	3. Arlagudem ,,	1887 ..	7,250	7,250	436	6,814	521	
	4. Tunikicheruvu ,,	1905 ..	10,093	10,093	..	10,093	575	
	5. Bhadráchalam ,,	1905 ..	7,661	7,661	..	7,661	482	
	6. Komananpally ,,	1905 ..	2,668	2,668	430	2,238	153	
	7. Gogubaka ,,	1905 ..	1,138	1,138	..	1,138	90	
	8. Tatlanka ,,	1887 ..	12,630	12,630	..	12,630	288	
	9. Bundreo ,,	1904 ..	8,635	8,635	1,800	6,835	196	
	10. Gollaguppa ,,	1904 ..	7,809	7,809	7,809	..	160	
	Total, Bhadráchalam Range.	..	66,308	66,308	10,475	55,833	3,173	
Marrigudem range.	1. Repauka reserve ..	1887 ..	6,072	6,072	650	5,422	239	
	2. Ramachendram reserve.	1887 ..	9,277	9,277	460	8,817	298	
	3. Narakonda reserve ..	1904 ..	6,600	6,600	711	5,889	164	
	4. Pegha ,, ..	1904 ..	4,601	4,601	2,809	1,792	310	
	5. Uppanapally ,, ..	1904 ..	2,569	2,569	1,590	979	144	
	6. Seetharampuram reserve.	1904 ..	865	865	..	865	99	
	7. Bandarugudem reserve.	1904 ..	7,931	7,931	5,120	2,811	265	
	8. Burakanakota reserve.	1904 ..	1,656	1,656	800	856	155	
	9. Pulusumamidy ,,	1902 ..	5,292	5,292	1,000	4,292	130	
	10. Mattapalli ,, ..	1887 ..	7,277	7,277	600	6,677	450	
	11. Kalleru ,, ..	1905 ..	4,140	4,140	..	4,140	237	
	12. Kansulur ,, ..	1905 ..	5,425	5,425	4,360	1,065	102	
	13. Lakkavaram ,, ..	1905 ..	7,306	7,306	4,400	2,906	320	
	13. Lakkavaram extension.	1906 ..	940	940	..	940	..	
	14. Walsugrivi	1905 ..	7,475	7,475	5,000	2,475	94	
	Total, Marrigudem ..	..	77,426	77,426	27,500	49,926	3,007	
Rekapalle range.	1. Rekapalle Hills Reserve—							
	Compartment No. I.	1901 ..	129,912	130,012	61,500	68,512	2,169	
	Compartments Nos. II to IX	1903 ..						
	Compartment No. X.	1902 ..						
Nugur Range.	Nugur reserved forest ..	1909 ..	..	64,000	40,588	23,412	1,057	
	Total, Gódávari, Upper, General.	..	273,646	337,746	140,063	197,683	9,406 (*a*) — 7	

(*a*) Added or deducted as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Gódávari, Lower—General protection—Rajahmundry range.	1. Lakkonda reserve ..	1887 ..	11,904	13,104	590	12,514	45	
	2. Malleru ,, ..	1887 ..	8,050	8,250	80	8,170	27	
	3. Mallavaram ,, ..	1887 ..	7,596	7,600	215	7,385	21	
	4. Tirumalayapalem reserve.	1887 ..	5,150	5,150	..	5,150	32	
	5. Sudikonda reserve ..	1887 ..	6,875	6,880	120	6,760	23	
	6. Murari ,, ..	1889 ..	700	700	..	700	13	
	7. Kogida ,, ..	1889 ..	1,280	1,280	..	1,280	12	
	8. Devancheruvu ,, ..	1887 ..	2,051	2,051	..	2,051	31	
	Total, Rajahmundry range.	..	43,606	45,015	1,005	44,010	204	
Peddapur range.	1. Anantagiri reserve ..	1905 ..	3,000	3,050	106	2,944	94	
	2. Ultimathula ,, ..	1905 ..	2,400	2,600	..	2,600	128	
	3. Banadapalle ,, ..	1905 ..	5,500	5,800	100	5,700	171	
	4. Rajavommangi ,, ..	1905 ..	7,761	7,961	150	7,811	231	
	5. Singampalli ,, ..	1905 ..	3,122	3,142	40	3,102	93	
	6. Jaddangi ,, ..	1905 ..	5,725	5,775	11	5,764	172	
	7. Aminbada ,, ..	1905 ..	4,480	4,480	..	4,480	128	
	8. Doramamidi ,, ..	1905 ..	6,400	6,400	164	6,236	154	
	9. Labbarti ,, ..	1905 ..	6,430	6,500	24	6,476	165	
	10. Veerabhadrapuram reserve.	1905 ..	10,200	10,300	393	9,907	284	
	11. Vatangi reserve ..	1905 ..	8,640	8,840	380	8,460	292	
	12. Lododdi ,, ..	1905 ..	7,050	7,200	115	7,085	235	
	13. Pedagumangi ,, ..	1905 ..	3,830	4,000	180	3,820	149	
	14 Annavaram ,, ..	1905 ..	8,360	8,500	348	8,152	213	
	15. Lingamparti ,, ..	1905 ..	6,210	6,500	415	6,085	146	
	16. Totapalli ,, ..	1887 ..	2,150	2,150	..	2,150	72	
	17. Posting look-out men to keep continued watch at several stations over the reserves.	..	..	..	..	..	472	
	18. Demarcation of sample plot in connection with departmental burning of grass.	..	..	..	..	..	158	
	Total, Peddapur range ..	..	91,258	93,198	2,426	90,772	3,357	
Polavaram range.	1. Beddadanvole reserve.	1890 ..	15,000	15,000	140	14,860	141	
	2. Marlagudem ,, ..	..	2,100	2,100	..	2,100	117	
	3 & 4. Jilugumilli and Barrinkalapadu reserves adjoining the Hyderabad boundary.	1898 ..	4,942	4,968	35	4,933	7	
	5. Kovvada reserve ..	1906 ..	17,316	17,799	372	17,427	225	
	6. Kopalli ,, ..	1906 ..	14,524	14,924	650	14,274	185	
	7. Papikonda ,, ..	1906 ..	11,785	11,785	630	11,155	428	
	8. Fire tracing the Forest Road which passes through Kovvada and Kopalli reserves.	..	..	..	..	..	24	
	Total, Polavaram range ..	..	65,667	66,576	1,827	64,749	1,127	
	Total, Gódavári, Lower (General).	..	200,531	204,789	5,258	199,531	4,688 * + 5	
Kistna—Special protection—Bezwada range.	1. Kondapalle reserve and extension No. 1.	1884–1885.	19,947	21,947	904	21,043	336	5 fires.
	2. Kothur reserve ..	1904–1905.	530	530	..	530	68	
	3. Kothur extension No. 2 reserve.	1904–1905.	50	50	..	50	..	
	4. Dasullapalem reserve..	1904–1905.	200	200	..	200	..	
	5. Jangalapalle ,, ..	1904–1905.	320	320	..	320	..	
	6. Velvadam ,, ..	1904–1905.	104	104	..	104	..	
	7. Kondur reserve ..	1903–1904.	210	286	154	132	166	2 fires.
	8. Jaggayyapeta reserve.	1904–1905.	50	50	..	50	..	
	9. Budavada reserve ..	1904–1905.	120	120	..	120	..	
	Total, Bezwada range.	..	21,531	23,607	1,058	22,549	570	

* Added as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Ellore range.	1. Yerraguntapalli reserve.	1887–88 ..	8,640	8,640	..	8,640	240	
	2. Barrikonda reserve ..	1887–88 ..	4,010	4,010	..	4,010	138	
	3. Bandamcherla reserve.	1887–88 ..	5,200	5,200	..	5,200	137	
	4. Nallacherla reserve ..	1908–1909.	932	932	..	932	16	
	5. Ungatur block I ..	1908–1909.	840	840	..	840	16	
	6. ,, II ..	1908–1909.	384	384	..	384	16	
	7. Ramasingavaram ..	1908–1909.	1,270	1,270	..	1,270	16	
	8. Tadikalapudi	1908–1909.	852	852	..	852	16	
	9. Chintalapudi	1908–1909.	360	360	..	360	16	
	10. Velagalapalli ..	1908–1909.	720	720	..	720	16	
	Total, Ellore ..	..	23,208	23,208	..	23,208	627	
	Total, Kistna—(Special)..	..	44,739	46,815	1,058	45,757	1,197 (*a*) — 1	
Kurnool, East—Special protection.	1. Railway working circle.	*1889–1909.	*92,227	101,120	41,685	59,435	20,565	
	2. Maddipenta plantation.	..	25	25	25	..		
	3. Cumbum range ..	1905–1909.	4,220	19,108	16,608	2,500		
	4. Markapur range ..							
	5. Fire-protected areas.		*					
	6. Chinna Mantrala plantation area.	1909 ..	..	1,460	1,000	460		
	7. Pedda Mantrala plantation area.	1906–1909.	984	1,000	10	990		
	8. Peddachama area ..	1907–1909.	600	600	..	600		
	9. Sandalwood area ..	1907–1909.	6,430	6,430	1,697	4,733		
	10. Gundlakamma range.	1909 ..	..	51,200	4,970	46,230		
	Total, Kurnool East (Special).	..	*104,486	180,943	65,995	114,948	20,565	
Kurnool, West—Special protection.	1. North and South Bairluti blocks.	1887 ..	..	..	..	..	..	Included in the Nallamalais below.
	2. Gummakonda block ..	1893 ..	..	..	..	..	..	
	3. Gadidemadugu ..	1903 ..	709	978	..	978	64	
	4. Woddamanu	1905 ..	210	270	..	270	25	
	5. Yaperlapad	1904 ..	552	761	30	731	137	
	6. West Ramallakota ..	1904 ..	490	630	..	630	67	
	7. Lanjabonda	1904 ..	..	889	192	697	74	
	8. Betamcherla G and H.	1904 ..	1,618	2,080	..	2,080	230	
	9. Loddipalli	1909 ..	..	118	..	118	9	
	10. East Ramallakota ..	1909 ..	..	192	..	192	16	
	11. Lanjabonda Extension.	1909 ..	..	311	..	311	33	
	12. Yemboyi	1909 ..	..	343	..	343	72	
	13. Rangapuram	1909 ..	..	577	..	577	31	
	14. Panem reserve M N ..	1909 ..	..	2,360	..	2,360	112	
	15. Gani reserve O and P.	1909 ..	..	4,560	1	4,559	79	
	16. North Dhone reserve A and B.	1903 ..	2,500	3,228	2,964	264	215	
	17. Kamalapuram C ..	1903 ..	329	423	97	326	108	
	18. South Dhone D ..	1904 ..	638	897	677	220	143	
	19. Southern Mahratta Railway line in North Dhone reserve.	..	..	..	..	..	27	
	20. Lodge's Fodder plot..	1907 ..	..	..	..	..	19	
	21. Mettapalli E	1909 ..	..	208	..	208	4	
	22. Kothakota and Pedda Podilla F.	..	..	72	..	72	..	
	23. Kottaburuzu G ..	..	..	120	..	120	16	
	24. Eddupenta H.. ..	..	..	147	..	147	20	
	25. Katarukonda I ..	..	..	286	..	286	6	
	26. Kapatralla J	..	..	303	..	303	34	
	27. Karumanchi K ..	..	..	149	..	149	3	
	28. Gundlakonda L ..	..	..	448	..	448	25	
	29. Pattikonda M ..	..	..	396	..	396	..	
	30. Pendaikal N	..	..	249	..	249	33	
	31. Tuggali O	..	..	201	..	201	8	
	32. Jonnagiri P	..	..	82	..	82	8	
	33. Yerragudi Q	..	..	356	..	356	..	
	34. Madhavaram R ..	..	..	628	300	328	4	
	35. Owk A and B ..	..	..	3,184	..	3,184	117	
	36. Ramavaram C ..	..	..	227	..	227	37	
	37. Addapalli D	..	..	131	..	131	12	

* This is the correct locality and area protected in previous years.
(*a*) Deducted as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
	38. Nallamekalapalli E ..	..	..	68	..	68	5	
	39. Peddapaya F	..	..	329	..	339	39	
	40. Devagudipad G ..	..	..	287	..	287	32	
	41. Jaladurgam and Extension III H and I.	..	..	1,819	460	1,359	99	
	42. Jaladurgam and Extension I J.	..	..	411	..	411	28	
	43. Pyapalli and Extension I and II K.	..	..	614	614	..	49	
	44. Tekulakonda Extension I and II L.	..	..	197	197	..	27	
	Total, Yerramalais ..	..	7,046	29,539	5,532	24,007	2,067	
Kurnool, West—Special protection—*cont.*	1. Area west of Mr. Wood's fire line in Nallamalais of Velgode range including four plantations.	1904 ..	30,720	59,520	29,440	30,080	1,733	
	2. Area west of Mr. Wood's fire line in part of Nandyal and Ernapad Terai portion.	1905 ..	26,560	28,160	6,400	21,760	772	
	3. Area west of Mr. Wood's fire line in Atmakur range including Nagalooty and Bairluti plantations.	1906 ..	12,160	19,200	6,400	12,800	807	
	4. Fire protection in Pecheruvu range plantation.	..	..	..	..	..	240	
	5. Fire protection of hill portion in Atmakur range.	..	..	..	..	..	53	
	6. Grubbing out and removing stumps and roots on the line from Bonda to Terrai line and on Mr. Wood's fire line in Nandyal.	..	..	..	..	..	390	
	7. Cutting grass as a fire-protection measure in Honkaram plantation.	..	..	..	..	..	120	
	8. Grubbing out roots, etc., on the fire lines in Atmakur range.	..	..	..	..	..	145	
	9. Cutting guide lines and burning grass on fire lines in Sirvel range.	..	.	.	..	..	876	
	10. Fire-protection works in Gundlabrahmeswaram range.	1908 ..	23,680	23,680	2,560	21,120	1,141	
	11. Putting out fires in Sirvel and Velgode ranges.	..	..	..	..	..	90	
	Total, Nallamalais ..	..	93,120	130,560	44,800	85,760	6,367	
	Total, Kurnool, West (Special).	..	100,166	160,099	50,332	109,767	8,434	
Bellary—Special Protection, Sandur range.	1. Ramandrug block ..	1883 ..	14,723	14,785	3,645	11,140	6,316	
	2. North-east block ..	1883 ..	14,190	16,011	7,466	8,545		
	3. Donamalai ,, ..	1883 ..	8,779	9,205	162	9,043		
	4. Part of Gundu and Gundu extension.	1906 ..	6,559	6,559	..	6,559		
Bellary range.	1. Malapanagudi Yepi block.	1886-87 ..	1,066	1,066	..	1,066	110	
Harpanahalli range.	1. Hyarada coupes ..	1899-1900	2,000	2,000	960	1,040	184	
	2. Jattinakatta	1906 ..	1,250	1,250	90	1,160		
	3. Sogi	1907 ..	400	400	150	250		

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Rayadrug range.	Dharmapuri coupes ..	1908 ..	800	800	..	800	51	
Hospet range.	1. Sunkarakal coupe ..	1908 ..	40	40	..	40	134	
	2. Chiribi coupes ..	1906 ..	150	150	..	150		
Kudligi range.	1. Shivapuram coupes ..	1902–03 ..	200	200	..	200	196	
	2. Kakkuppi coupes ..	1906 ..	60	60	..	60		
Alúr range ..	Bantanahal series, whole area.	Part 1909..	1,574	1,574	..	1,574	26	
Adóni range.	1. Working Circle IV, compartments 1, 2 and 3.	1910 ..	..	2,172	51	2,121	102	
	2. Working Circle V, compartments 1, 2 and 3.	Part 1907..	195	1,666	2	1,664		
	3. Working Circle VI, compartments 1, 2 and 3.	Part 1909..	187	1,828	..	1,828		
	4. Working Circle VII, compartments 1, 2 and 3.	Part 1907..	(*a*) 2,041	2,048	..	2,048		
	5. Working Circle VIII, compartments 1, 2 and 3.	Part 1909..	930	2,603	50	2,553		
	Total, Bellary (Special) ..	..	55,144	64,417	12,576	51,841	7,119 *+ 2,551	
Anantapur Special protection.	1. Muchukota reserve ..	1884 ..	10,000	10,000	1	9,999	407	
	2. Kothakota ,, ..	1884 ..	11,016	11,016	26	10,990	313	
	3. Amagondapalayam Working Circle.	1884 ..	15,360	15,360	126	15,234	230	
	4. Nyalakota Working Circle.	1890 ..	11,956	12,156	5	12,151	219	
	5. Konappanayanipalli Working Circle.	1905 ..	1,215	1,215	..	1,215	17	
	6. Penukonda Town Working Circle.	1905 ..	1,700	1,700	640	1,060	17	
	7. Yerracherla Working Circle.	1904 ..	411	411	5	406	16	
	8. Rallahalli Working Circle.	1904 ..	626	626	..	626	16	
	9. Madakasira Working Circle.	1905 ..	739	739	..	739	16	
	10. Guttur Working Circle.	1906 ..	1,291	1,293	..	1,293	45	
	11. Vanavole Working Circle.	1906 ..	1,903	1,903	..	1,903	47	
	12. Gundamala Working Circle.	1906 ..	890	890	..	890	16	
	13. Hottebetta Working Circle.	1907 ..	1,223	1,223	..	1,223	35	
	14. Ramagiri Working Circle.	1907 ..	1,488	1,588	300	1,288	26	
	15. Chalivondala Working Circle.	1907 ..	1,376	1,376	..	1,376	31	
	16. Kodinalli Working Circle.	1908 ..	276	276	..	276	17	
	17. Yadiki Working Circle.	1908 ..	1,612	1,612	1,050	562	60	
	18. Rayalcheruvu Working Circle.	1908 ..	1,272	1,272	..	1,272	46	
	19. Nagasamudram Working Circle.	1908 ..	1,783	1,823	320	1,503	72	
	20. Gooty Town Working Circle.	1908 ..	824	824	145	679	50	
	21. Gallows Working Circle.	1908 ..	936	2,136	602	1,534	64	
	22. Pamdurti Working Circle.	1908 ..	642	1,042	20	1,022	22	
	23. Tarimala Working Circle.	1909 ..	..	2,285	..	2,285	54	
	24. Ratnagiri Working Circle.	1909 ..	..	188	..	188	22	
	25. Ravudi Working Circle.	1909 ..	..	58	..	58	17	
	26. Settipalli Working Circle.	1909 ..	..	1,053	10	1,043	35	
	Total, Anantapur (Special).	..	68,539	74,065	3,250	70,815	1,910	

* Added as per Accountant-General's audited figures. (*a*) Correct figure.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		Acs.	Acs.	Acs.	Acs.	Rs.	
Anantapur General protection.	1. Guttur Working Circle.	1887 ..	3,870	3,880	60	3,820	..	
	2. Jambugampala ..	1908 ..	4	4	..	4	..	
	Total, Anantapur (General).	..	3,874	3,884	60	3,824	..	
	Total, Anantapur (Special and General).	..	72,413	77,949	3,810	74,639	1,910	
	Total, Special ..	..	462,768	722,590	151,715	570,875	46,346	
	Total, General ..	..	478,051	607,814	150,887	456,927	14,092	
	Grand Total (Special and General).	..	940,819	1,330,404	302,602	1,027,802	60,438	
	Central Circle.							
Cuddapah, North—Cuddapah range.	Lankamalais extension ..	1905 ..	22.657	24,215	10,031	14,184	198	
	Palakonda and its extension.	1901–1905	32,625	35,275	1,457	33,818	672	
	Ganganapalli and extension.	1905 ..	36,234	49,277	760	48,517	204	
	Idupalapaya and extension.	1905 ..	23,577	20,912	150	20,762	240	
	Idupalapaya plantation ..							
	Redlacheruvu	1905 ..	6,420	6,420	..	6,420	..	
	Gorivikanama and extension.	1908–1909	10,910	100	..	100	28	
	Tummalur Reserved Forest	1908–1909	4,456	..	..	..	..	
	Kamalapuram plantation.	1908–1909	561	561	..	561	..	
	Total, Cuddapah range ..	..	1,37,440	136,760	* 12,398	1,24,362	1,342	
Proddatur range.	Nallamalais	1905 ..	47,213	47,813	19,200	28,613	1,162	
	Lankamalais extension ..	1907 ..	* 6,377	698	..	698	60	
	Kancherlamaram coupes ..	1907–1910	320	10,988	..	10,988	251	
	Total, Proddatur range ..	..	53,910	59,499	19,200	40,299	1,473	
Rayachóti range.	Seshachellam extensions C. and D.	1905 ..	12,869	13,269	..	13,269	98	
	Yerrakonda and extension.	1905 ..	11,169	19,511	561	18,950	363	
	Gadikota and extension ..	1905 ..	21,345	21,985	1,007	20,978	116	
	Palakonda and extension.	1905 ..	46,207	46,877	5,867	41,010	143	
	Idupalapaya and extension.	1905 ..	14,984	14,984	3,790	11,194	142	
	Sibyala coupes	1905 ..	500	500	..	500	..	
	Mudumpad slopes ..	1907 ..	† 9,204	9,024	..	9,024	102	
	Urukonda	1907 ..	100	100	..	100	..	
	Total, Rayachóti range ..	..	116,378	126,250	11,225	115,025	964	
	Total, North Cuddapah, Special.	..	307,728	322,509	42,823	279,686	3,779	
Cuddapah, East—Pullampet range, Special.	Settigunta (Balapalle East Working Circle).	1871–1908	4,457	..	..	..	..	
	Seshachallams including Budduguntapalle Reserved Forest.	1867–1873–1905	191,854	191,910	27,774	164,136	1.176	‡ 400
	Veligondas comprising Settigunta Reserved Forest, Cheyyavaram and extension, Kodur and extension Gotimanikona and extension and Salivendula and extension Reserved Forest.	1871–1908	3,188	53,877	8,991	44,886	323	‡ 75
	Total, Pullampet range ..	..	199,499	245,787	36,765	209,022	1 499	‡475

* Reported as wrongly given instead of 698.
† 180 acres reported to have been shown in excess last year.
‡ Incurred on account of the fire-protection of the previous year.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Cuddapah East—*cont.* Sidhout range.	Palakondas Reserved Forest.	1901–1905	35,468	35,538	2,540	32,998	466	‡113
	Konarajupalle Reserved Forest, and Nandalur Vontimitta Fuel Working Circle).	1905 ..	7,346	7,366	680	6,686	98	‡2
	Kanamalapalle Reserved Forest (Fuel Working Circle).	1905 ..	6,591	3,121	76	3,045	82	‡14
	Lankamalai Reserved Forest.	1905 ..	34,259	34,711	20,269	14,442	397	‡198
	Turpukonda and extension.	1907 ..	..	30,748	822	29,926	165	
	Total, Sidhout range ..	..	83,664	111,484	24,387	87,097	1,208	‡327
Badvel range	Nallamalais Reserved Forest.	1905 ..	50,452	57,341	23,740	33,601	521	* 459
	Gopavaram and Lankamalais Reserved Forest (Badvel) Fuel Working Circle.	1905 ..	..	8,805	..	8,805	156	
	Porumamilla Fuel Working Circle (Kavalakuntla Reserved Forest).	1905 ..	..	5,789	..	5,789		
	Sancherla Fuel Working Circle (Sancherla Reserved Forest).	1905 ..	..	4,153	..	4,153		
	Lankamalai Fuel Working Circle (Lankamalai Reserved Forest).	1905 ..	..	3,815	..	3,815		
	Total, Badvel range ..	..	50,452	79,903	22,740	56,163	677	
	Grand total of Cuddapah East—Special.	..	333,615	437,174	84,892	352,282	3,384	* 1,261
Cuddapah, South—Kadiri range.	Nigadi Reserve	1905 ..	29,957	29,957	265	29,692	595	
	Kadiri coupe	1908 ..	300	400	..	400	..	
Vayalpad range.	Horsleykonda	1905 ..	21,739	21,739	136	21,603	..	
	Bhakarapet	1905 ..	10,600	10,600	180	10,420	..	
	Talakona		18,900	18,900	..	18,900	..	
	Seshachallam extension ..		..	8,696	..	8,696	..	
	Nurukuppalakonda ..	1908 ..	300	400	..	400	..	
	Total, Cuddapah South, Special and Departmental burning.	..	81,796	90,692	581	90,111	595	
Nellore ..	Udayagiri-Veligondas A and B blocks.	1883 ..	60,000	60,000	.. *	60,000	666	
	Gundlakonda attached to Veligondas A in the Udayagiri range.	1903 ..	720	720	..	720		
	Udayagiri-Durgum Hill and Korisakonda.	1902 ..	15,760	15,760	..	15,760		
	Udayagiri - Yerragondas in the Udayagiri range.	1903 ..	14,080	14,080	..	14,080		
	Rapur-Veligondas A and B blocks in Rapur range.	1883 ..	30,720	30,720	322	30,398	678	
	Dontali and Amancherla reserves.	1909 ..	1,304	1,304	..	1,304		
	Kondlapudi reserve ..	1910 ..	..	1,500	..	1,500		
	Sarvepalli reserve compartment 7.	1910 ..	..	500	..	500		
	Koilurpad in Kavali range.	1909 ..	110	110	..	110	34	
	Nandanavanam block and its extensions A and B and Vedullacheruvu or Kanigiri-Veligondas in Kanigiri range.	1883 ..	26,780	26,780	..	26,780	175	
	Total, Nellore ..	..	149,474	151,474	322	151,152	1 553	

* Incurred on account of the fire-protection of the previous year.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Chingleput—Chingleput range.	Meyyur plantation ..	1900–1901.	317	317	..	317	897	
	Karunguli tope	1900–1901.	16	16	..	16		
Tiruvallúr range.	Kambakkam Reserved Forest.	1883–1884.	15,827	15,827	..	15,827		
	Nagalapuram Reserved Forest.	1883–1884.	9,446	9,696	72	9,624		
	Total, Chingleput ..	..	25,606	25,856	72	25,784	897	
North Arcot—Special Protection.								
Chittoor range.	Chittoor reserve	1882 ..	385	385	1	384	27	
	Chittapara reserve ..	1903 ..	871	1,061	1	1,060	6	
	Paradarami reserve ..	1903 ..	787	962	1	961	15	
	Pudipatlabylu	1903 ..	222	268	2	266	12	
	Veerisettipalle	1903 ..	455	605	..	605	17	
	Tavanampalli	1903 ..	21	41	..	41	4	
	Vevilthota	1903 ..	112	134	2	132	5	
	Total, Chittoor range ..	..	2,853	3,456	7	3,449	86	
Chandragiri range.	Napier reserve	1880 ..	21,228	8,826	40	8,786	..	
	Mamandur reserve ..	1875 ..		1,760	..	1,760	..	
	Mamandur extension ..	1888 ..		10,642	..	10,642	..	
	Tirupati hill	1904 ..	115	115	..	115	..	
	Chamala	1880 ..	19,347	19,362	915	18,447	..	
	Nagapatla	1890 ..	14,014	14,147	..	14,147	..	
	Mungilpattu	1903 ..	699	855	..	855	..	
	Panapákkam	1903 ..	399	1,430	..	1,430	..	
	Penumur	1906 ..	506	713	..	713	..	
	Panapákkam extension ..	1907 ..	332	592	..	592	..	
	Tirupati extensions A and B.	1903 ..	434	455	130	325	..	
	Total, Chandragiri range.	..	57,074	58,897	1,085	57,812	404	
Palmanér range.	Peddanaikdrug	1903 ..	804	804	520	284	23	
	Mordana	1898 ..	163	163	..	163	8	
	Charagal	1899 ..	605	605	..	605	10	
	Peddur	1903 ..	632	632	157	475	10	
	Naickaneri	1898 ..	246	246	20	226	15	
	Musalimadugu	1884 ..	5,680	5,739	15	5,724	88	
	Palmanér	1901 ..	537	605	..	605	14	
	Peddur extension ..	1902 ..	489	489	90	399	6	
	Basavareddipalli	1898 ..	486	541	5	536	6	
	Pattikonda	1903 ..	350	350	..	350	5	
	Total, Palmanér range ..	..	9,992	10,174	807	9,367	185	
Gudiyáttam range.	Naickaneri reserve ..	1901 ..	100	100	..	100	..	
	Mordana	1897 ..	712	712	..	712	..	
	Amburdrug	1897 ..	959	959	..	959	4	
	Mordana extension ..	1898 ..	713	793	80	713	6	
	Gundlapalli	1897 ..	2,007	2,070	..	2,070	12	
	Synagunta	1899 ..	531	596	..	596	7	
	Charagal (Gudiyáttam portion).	1901 ..	642	662	..	662	7	
	Karapet	1897 ..	1,526	1,526	..	1,526	5	
	Paradarami	1903 ..	707	792	..	792	7	
	Jangalapalli	1903 ..	898	984	..	984	8	
	Pallalakuppam	1903 ..	666	721	..	721	5	
	Kempasamudram	1897 ..	200	200	..	200	..	
	Synagunta extension ..	1901 ..	100	100	..	100	..	
	Total, Gudiyáttam range.	..	9,761	10,215	80	10,135	61	
Vellore East range.	Palamadi	1880 ..	8,120	8,160	1,340	6,820	..	
	Kaniyambadi	1892 ..	5,645	5,745	..	5,745	..	
	Punganur	1884 ..	3,961	3,961	..	3,961	..	
	Kodiyalam	1906 ..	82	82	..	82	..	
	Kolathur	1907 ..	65	82	..	82	..	
	Total, Vellore East range.	..	17,873	18,030	1,340	16,690	186	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Arcot—Special Protection—*cont.* Vellore West range.	Arasampet reserve ..	1901 ..	2,479	2,687	161	2,526	..	
	Ambur fuel reserve ..	1879 ..	6,768	7,512	40	7,472	..	
	Ambur block reserve ..	1887 ..	28,236	28,386	3,010	25,376	..	
	Thellai	1905 ..	1,515	1,675	20	1,655	..	
	Karuthamalai	1906 ..	54	104	..	104	..	
	Kylasagiri	1892 ..	2,613	2,613	65	2,548	..	
	Shanankuppam	1901 ..	903	903	15	888	..	
	Nellimalai	1906 ..	287	352	..	352	..	
	Total, Vellore West range.	..	42,855	44,232	3,311	40,921	312	
Polur range	Karanatighur	1881 ..	7,871	7,871	230	7,641	..	
	Malayalam	1897 ..	1,206	1,206	..	1,206	..	
	Mulakad	1896 ..	280	280	..	280	..	
	Santhavasal	1897 ..	596	596	..	596	..	
	Periamalai	1892 ..	7,315	7,315	..	7,315	..	
	Parvathamalai	1892 ..	6,088	6,088	..	6,088	..	
	Thellai	1897 ..	200	200	..	200	..	
	Vellimalai	1906 ..	187	187	..	187	..	
	Kelur	1897 ..	303	303	..	303	..	
	Allialamangalam	1906 ..	801	801	..	801	..	
	Total, Polur range ..	..	24,847	24,847	230	24,617	641	
Abstract of North Arcot Special protection.	Chittoor	..	2,853	3,456	7	3,449	86	
	Chandragiri	..	57,074	58,897	1,085	57,812	404	
	Palmanér	..	9,992	10,174	807	9,367	185	
	Gudiyáttam	..	9,761	10,215	80	10,135	61	
	Vellore, East	..	17,873	18,030	1,340	16,690	186	
	Vellore, West	..	42,855	44,232	3,311	40,921	311	
	Polur	..	24,847	24,847	230	24,617	641	
	Total, Special protection ..	..	165,255	169,851	6,860	162,991	1,874	
North Arcot General protection.	Chittapara reserve ..	1888 ..	3,718	3,908	1	3,907	..	
	Paradarami	1880 ..	8,551	8,726	1	8,725	..	
	Pachigunta	1888 ..	1,800	1,800	1	1,799	..	
	Irala A and B	1888 ..	12,523	12,523	9	12,514	..	
	Irala extension	1893 ..	2,650	2,650	..	2,650	..	
	Parappumalai	1899 ..	2,227	2,227	1	2,226	..	
	Tavanampalli	1899 ..	1,841	1,861	..	1,861	..	
	Puthalpattu	1891 ..	3,077	3,077	..	3,077	..	
	Damalacheruvu A and B.	1892 ..	2,368	2,368	..	2,368	..	
	Pudipatlabylu	1880 ..	4,156	4,202	2	4,200	..	
	Kinatipalli A	1884 ..	1,417	1,417	..	1,417	..	
	Chillapalli	1884 ..	1,166	1,166	..	1,166	..	
	Basavapalli A and B ..	1888 ..	1,780	1,780	1	1,779	..	
	Basavapalli extension ..	1894 ..	841	841	..	841	..	
	Veerisettipalle	1888 ..	6,589	6,739	..	6,739	..	
	Panamadangi	1887 ..	10,515	10,515	1	10,514	..	
	Kunjanur	1893 ..	1,549	1,549	1	1,548	..	
	Santhapet	1882 ..	2,148	2,148	..	2,148	..	
	Bommasamudram A and B.	1891 ..	1,128	1,128	..	1,128	..	
	Vovilthota	1891 ..	2,040	2,040	..	2,040	..	
	Bommasamudram extension.	1892 ..	1,312	1,312	2 ..	1,310	..	
	Kinatipalli extension.	1893 ..	994	994		994	..	
	Reddigunta reserve ..	1893 ..	1,441	1,441	..	1,441	..	
	Chases hill	1893 ..	2,692	2,692	..	2,692	..	
	Santhapet extensions A, B and C.	1893 ..	483	483	..	483	..	
	Mahimandalam	1888 ..	2,528	2,528	..	2,528	..	
	Kinatipalli extension B ..	1893 ..	25	25	..	25	..	
	Bommanaikanpaliam ..	1894 ..	912	912	..	912	..	
	Total, Chittoor range.	..	82,471	83,052	20	83,032	..	
Chandragiri range.	Tirupati hill	1888 ..	18,349	18,438	545	17,893	..	
	Nagapatla	1890 ..	5,290	18,121	277	17,844	..	
	Mungilpattu	1890 ..	27,364	27,376	580	26,796	..	
	Panapákkam	1880 ..	17,109	17,129	94	17,035	..	
	Sanambatla	1892 ..	5,133	5,139	90	5,049	..	
	Pakala A and B	1894 ..	2,035	2,035	..	2,035	..	
	Napier extension reserve	1900 ..	26	26	..	26	..	
	Penumur	1893 ..	1,146	1,146	..	1,146	..	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Chandragiri range—*cont.*	Panapákkam extension ..	1892 ..	9,000	9,000	2	8,998	..	
	Chandragiri hill	1892 ..	1,293	1,293	..	1,293	..	
	Penumur extensions A and B.	1893 ..	3,123	3,123	..	3,123	..	
	Penumur-Chittoor portion.	1891 ..	1,082	1,082	..	1,082	..	
	Tirupati extensions A and B.	1891 ..	6,032	6,032	..	6,032	..	
	Total, Chandragiri range.	..	96,982	109,940	1,588	108,352	..	
Palmanér range.	Peddanaikdrug	1880 ..	13,968	13,968	421	13,547	..	
	Mordana	1884 ..	9,037	9,037	..	9,037	..	
	Charagal	1888 ..	6,318	6,318	395	5,923	..	
	Peddur	1880 ..	15,994	15,994	868	15,126	..	
	Naickaneri	1880 ..	6,594	6,594	50	6,544	..	
	Palmanér	1892 ..	5,827	5,827	68	5,759	..	
	Peddur extension	1902 ..	8,905	8,905	103	8,802	..	
	Nellipatla	1895 ..	7,135	7,135	..	7,135	8	
	Basavareddipalli	1884 ..	5,006	5,006	55	4,951	..	
	Pattikonda	1893 ..	4,840	4,840	1	4,839	..	
	Melvoy	1884 ..	1,568	1,568	..	1,568	..	
	Musalimadagu extension.	1895 ..	1,875	1,875	..	1,875	..	
	Basavareddipalli extension A.	1895 ..	2,170	2,170	..	2,170	..	
	Basavareddipalli extension B.	1895 ..	5,792	5,794	..	5,794	..	
	Alapalli	1895 ..	2,029	2,029	..	2,029	..	
	Veerlabanda	1875 ..	2,569	2,569	..	2,569	..	
	Kotakanama	1895 ..	4,710	4,710	..	4,710	..	
	Total, Palmanér range ..	..	104,337	104,339	1,961	102,378	8	
Gudiyáttam range.	Naickaneri reserve ..	1884 ..	5,054	5,054	..	5,054	..	
	Mordana reserve (Gudiyáttam portion).	1884 ..	13,902	13,902	..	13,902	..	
	Amburdrug	1884 ..	9,246	9,246	..	9,246	..	
	Mordana extension ..	1891 ..	8,545	8,545	..	8,545	..	
	Gundlapalli	1894 ..	5,675	5,675	..	5,675	..	
	Synagunta	1891 ..	6,901	6,901	..	6,901	..	
	Charagal (Gudiyáttam portion).	1893 ..	10,994	10,994	..	10,994	..	
	Karapet	1892 ..	6,547	6,547	..	6,547	..	
	Naickaneri extension ..	1887 ..	1,568	1,568	..	1,568	..	
	Paradarami extension ..	1889 ..	1,888	1,888	..	1,888	..	
	Paradarami reserve ..	1903 ..	3,817	3,817	..	3,817	..	
	Jangalapalle	1903 ..	2,028	2,028	..	2,028	..	
	Pallalakuppam	1903 ..	6,156	6,156	..	6,156	..	
	Pallalakuppam extensions A and B.	1893 ..	5,883	5,883	..	5,883	..	
	Kempasamudram A and B.	1893 ..	1,214	1,214	..	1,214	..	
	Synagunta extension ..	1892 ..	2,396	2,396	..	2,396	..	
	Gundlapalli extension ..	1894 ..	928	928	..	928	..	
	Kallapadi reserve ..	1894 ..	6,945	6,945	..	6,945	..	
	Total, Gudiyáttam range.	..	99,687	99,687	..	99,687	..	
Vellore, East range.	Banavaram	1880 ..	1,021	1,021	..	1,021	..	
	Punganur	1884 ..	9,378	9,378	750	8,628	..	
	Ammur reserve	1884 ..	5,139	5,139	2,050	3,089	..	
	Vellore reserve	1892 ..	2,413	2,413	..	2,413	..	
	Ammanur reserve.. ..	1880 ..	203	203	..	203	..	
	Brahmanakatteri	1884 ..	561	561	..	561	..	
	Kodiyalam	1884 ..	161	161	..	161	..	
	Budur	1884 ..	835	835	..	835	..	
	Vengunam	1884 ..	1,288	1,288	..	1,288	..	
	Nambedu	1884 ..	947	947	..	947	..	
	Vishamangalam	1884 ..	1,148	1,148	..	1,148	..	
	Ponnur	1884 ..	1,656	1,656	..	1,656	..	
	Nedungal	1884 ..	2,298	2,298	..	2,298	..	
	Nambedu extensions A, B and C.	1895 ..	397	397	..	397	..	
	Sathur reserve	1884 ..	750	750	..	750	..	
	Nedungunam reserve ..	1884 ..	1,637	1,637	..	1,637	..	
	Arkonam plantation ..	1907 ..	58	58	..	58	..	
	Total, Vellore, East range.	..	29,890	29,890	2,800	27,090	..	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Vellore, West range.	Arasampet reserve ..	1887 ..	28,813	28,813	..	28,813	..	
	Vellakkal	1889 ..	5,037	5,037	..	5,037	..	
	Attiyur	1889 ..	4,800	4,800	..	4,800	..	
	Thellai	1891 ..	543	543	..	543	..	
	Karuthamalai	1882 ..	20,432	20,432	..	20,432	..	
	Nellimalai	1892 ..	2,734	2,734	..	2,734	..	
	Appukal	1892 ..	800	800	24	776	..	
	Shanankuppam	1893 ..	13,338	13,338	20	13,318	..	
	Pallikonda	1892 ..	3,898	3,898	205	3,693	..	
	Paravamalai	1892 ..	7,078	7,078	..	7,078	..	
	Vanniveda plantation ..	1880 ..	39	39	..	39	..	
	Total, Vellore, West range.	..	87,512	87,512	249	87,263	..	
Polur range.	Malayalam	1887 ..	27,765	27,765	..	27,765	..	
	Mulakad	1890 ..	15,570	15,570	..	15,570	..	
	Santhavasal	1890 ..	9,340	9,340	..	9,340	..	
	Thellai	1891 ..	14,662	14,662	..	14,662	..	
	Vellimalai	1893 ..	1,927	1,927	..	1,927	..	
	Virappanur	1883 ..	31,467	31,467	..	31,467	..	
	Kelur	1884 ..	2,878	2,878	..	2,878	..	
	Puthur reserve	1879 ..	18,458	18,458	..	18,458	..	
	Patrakad	1881 ..	25,254	25,254	..	25,254	..	
	Kappalur	1884 ..	1,504	1,504	..	1,504	..	
	Allialamangalam ..	1884 ..	9,784	9,784	..	9,784	..	
	Santavasal extensions A and B.	1892 ..	331	331	..	331	..	
	Total, Polur range ..	..	158,940	158,940	..	158,940	..	
Abstract of North Arcot General protection.	Chittoor		82,471	83,052	20	83,032	..	
	Chandragiri		96,982	109,940	1,588	108,352	..	
	Palmaner		104,337	104,339	1,961	102,378	8	
	Gudiyáttam		99,687	99,687	..	99,687	..	
	Vellore, West		87,512	87,512	249	87,263	..	
	Do. East		29,890	29,890	2,800	27,090	..	
	Polur		158,940	158,940	..	158,940	..	
	Total of General protection ..		659,819	673,360	6,618	666,742	8	
	Total of Special protection ..		165,255	169,851	6,860	162,991	1,874	
	Total of Arcot North—Special and General.		825,074	(a)843,211	13,478	829,733	1,882	
South Arcot—Special protection—Tiruvannámalai range.	Annamalai	1878 ..	1,726	1,727	230	1,497	160	
	Kavuthi	1878 ..	6,628	6,978	75	6,903	88	
	Tenmalai	1877 ..	31,659	31,706	241	31,465	830	
	Nallápattu	1889 ..	5,094	5,094	100	4,994	..	
	Pelámaraththúr	1889 ..	5,075	5,075	..	5,075	..	
	Paramanandal	1895 ..	1,513	1,517	365	1,152	..	
	Mudanai	1898 ..	7,042	7,042	3	7,039	..	
	Valasamalai	1883–84 ..	7,621	7,626	200	7,426	157	
	Nattampalli	1889 ..	5,188	5,188	65	5,123	235	
	Perungolathur Swamimalai.	1883–84 ..	6,056	6,056	212	5,844	121	
	Chinnasamudram ..	1900 ..	2,842	2,842	5	2,837	39	
	Damarakadu	1900 ..	3,762	3,764	54	3,710	246	
	Eraiyur	1907 ..	5,659	5,659	6	5,653	52	
Kallakurichi range.	Takarai	1883–84 ..	11,163	11,163	16	11,147	215	
	Parikam	1906 ..	549	549	28	521	57	
	Ravattanallúr	1907 ..	227	227	..	227	21	
	Kanai	1907 ..	741	741	..	741	60	
	Puttai	1907	547	547	25	522	57	
	Rangapparur	1907 ..	560	560	..	560	49	
	Total, South Arcot—Special protection.	..	103,652	104,061	1,625	102,436	2,387	
North Salem—Special protection—Salem, West range.	Nagaramalai	1901 ..	199	284	..	284	38	
Tiruppattúr range.	Singarapet 1 to 7 ..	1861 ..	563	765	115	650	40	

(a) Corrected in the Board's office.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Salem Special Protection —*cont.* Hosúr range.	Melagiri	1885 ..	5,281	5,461	300	5,161	88	
	Kanavoi Kottapalli ..	1885 ..	742	742	50	692	26	
	Gulhatti	1885 ..	3,233	3,248	24	3,224	66	
	Manchi	1885 ..	2,982	3,285	78	3,207	128	
	Kanavanagasamudram ..	1885 ..	416	416	..	416	18	
	Total, Hosúr range ..	..	12,654	13,152	452	12,700	326	
	Total, Special protection.	..	13,416	14,201	567	13,634	404	
General protection— Tiruppattúr and Krishnagiri ranges.	Alangayam coupes V-29. 2, 3, 4, 6, 27 and 28.	1891 ..	1,703	2,870	130	2,740	80	
	Kalarapatti 2	1895 ..	728	330	..	330	37	
	Pungalam coupes 1 to 4 ..	1895-96 ..	1,098	1,093	10	1,083	31	
	Andiappanur coupes 11, 12, 13 and 14.	1894 ..	796	877	70	807	31	
	Govindapuram coupes 1 to 3.	1895 ..	351	518	150	368	40	
	Kottur (Yelagiri) ..	1885 ..	1,225	1,225	..	1,225	52	
	Neralkotta coupes 3 to 6.	1896 ..	1,835	1,471	..	1,471	51	
	Maharajagadai coupes 3 to 6.	1896 ..	1,888	1,545	..	1,545	52	
	Mangalam	1901-02 ..	641	..	..	..	..	
	Mambakkam coupes 6 and 7.	1904-05 ..	235	295	200	95	16	
	Varatanapalli coupe 1 ..	1905-06 ..	690	690	..	690	32	
	Nandbanda coupe 2 ..	1904-05 ..	496	496	..	496	32	
	Burgur coupe 1	1905-06 ..	492	492	..	492	23	
	Nagaluthu coupes 1, 2 and 3.	1904-05 .	186	244	..	244	28	
	Jalarpet coupes 1, 2 and 3, Mangalam Extension.	1904-05 .	125	244	..	244	17	
	Vellakuttai coupe 1 ..	1907 ..	317	321	..	321	8	
	Total, Tiruppattúr and Krishnagiri ranges.	..	12,806	12,711	560	12,151	530	
Dharmapuri range.	Thoppur coupes 1 to 4 and 5.	1903-09 ..	605	605	..	605	96	
	Pennagaram coupe 1, Barigam.	1907-08 ..	257	257	..	257	24 18	
	Total, Dharmapuri range.	..	862	862	.	862	138	
Hosúr range.	Jowlagiri	1900 ..	4,803	5,160	..	5,160	117	
	Noganur coupes	1900 ..	338	338	..	338	28	
	Denkanikotta coupes 1 & 2.	1907-08 ..	276	276	18	258	21	
	Thellai coupe 1	1907-08 ..	195	195	..	195	6	
	Sanamavu grass farm.	1907 ..	2,182	2,182	..	2,182	19	
	Do. reserve.						32	
	Total, Hosúr range ..	..	7,794	8,151	18	8,133	223	
Salem, West range.	Shevaroys West Working Circle, coupes 5—10.	1901 ..	1,134	2,039	350	1,689	189	
	Lokur Working Circle, coupes 1 to 5.	1902 ..	1,398	2,389	..	2,389	91	
	Sanyasimalai	1903 ..	112	799	5	794	645	
	Mary land	1903 ..	121					
	Shevaroys South Working Circle including bamboo coupes 5 to 9.	1902 ..	6,186	2,177	370	1,807	223	
		1893 ..						
	Total, Salem, West range.	..	8,951	7,404	725	6,679	1,148	
	Total, General Protection.	..	30,413	29,128	1,303	27,825	2,039	
	Total, North Salem, Special and General Protection.	..	43,829	43,329	1,870	41,459	2,443	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
South Salem—Salem, East range—Fire line and patrol system.	Mallur Working Circle coupes 1 to 5.	1906 ..	480	480	..	480	30	
	Thirumanur Working Circle coupes 1 to 5.	1906 ..	589	589	..	589	38	
	Bodamalai Working Circle coupes 1 to 5.	1906 ..	316	316	6	310	23	
	Jalluthu Working Circle coupes 1 to 9.	1905 ..	1,232	1,848	..	1,848	69	
	Godamalai Working Circle coupes 1 to 9.	1905 ..	1,385	2,175	..	2,175	93	
	Godumalai experimental grass plot.	1907 ..	10	10	..	10		
	Pudupatti Working Circle coupes 1 to 9.	1905 ..	797	1,305	156	1,149	75	
	Kapputhu old coupes ..	1894 ..	187	187	..	187	30	
	Experimental grass and silage plots.	1907 ..	10	10	..	10		
	Manjavadi coupes 7 to 12.	1902 ..	4,133	2,253	35	2,218	210	
	Velampatti coupes 1 to 6.	1910 ..	..	2,275	..	2,275		
Atûr range.	Kurichi timber coupes 1 to 3.	1906 ..	1,736	1,736	373	1,363	40	
	Pungamaduvu and Kuthimaduvu timber coupes 1 to 3.	1906 ..	2,592	2,592	80	2,512	12	
	Jadayagounden Working Circle coupes 1 to 5.	1905 ..	795	1,355	7	1,348	78	
	Pattimedu Working Circle coupes 1 to 8.	1904 ..	538	1,038	10	1,028	78	
	Nagalur Working Circle coupes 1 to 6.	1904 ..	458	942	..	942	99	
	Mannur Working Circle coupes 1 to 4.	1904 ..	466	963	..	963	40	
	Thumbal Working Circle coupes 1 to 4.	1905 ..	133	532	..	532	30	
	Gangavalli Working Circle coupes 1 to 3 and Specially-protected coupes 1 to 5.	1907 ..	2,627	2,806	..	2,806	88	
	Mavar Working Circle coupes 1 to 4.	1907 ..	171	689	..	689	41	
Námakkal range.	Timber and Protective Working Circle felled and advance coupes 1 to 5 of Vanavasi Charcoal Working Circles of Vanavasi Working Plan.	1904 ..	188	2,946	..	2,946	19	
	Suriamalai coupes 1 to 10 of Railway Fuel Working Circle of Vanavasi Working Plan.	1904 ..	1,349	2,353	..	2,353	36	
	Sholappadi Charcoal Working Circle coupes 1 to 5.	1904 ..	148	935	..	935	18	
	Jambuthu old coupes ..	1905 ..	708	708	..	708	47	
	Jambuthu new coupes ..	1910 ..	..	328	..	328		
	Karavalli new coupes ..	1910 ..	..	320	..	320	..	
	Shelur old coupes 1 to 5 .. and	1905 ..	200	410	..	410	11	
	New coupes 1 to 4	1910 ..						
Harur, South range.	Mallapuram Specially-protected block.	1882 ..	606	606	7	599	13	
	Mookkanur Specially-protected block.	1901 ..	960	960	..	960	85	
	Shevaroys North Working Circle coupes in Yerimalai and Mallapuram Ghat.	1902–1903.	3,719	4,845	316	4,529	124	
	Kuriappa Kombai Specially-protected block.	1897 ..	181					
	Shevaroys North Working Circle coupes in Bodakad, Narthuchedu and its extension.	1910 ..	..	2,693	..	2,693	90	
	Kouramalai Working Circle coupes 1 to 8.	1902–1903.	2,461	3,280	..	3,280	85	

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
South Salem —*cont.*	Chitteri South-West Working Circle, coupes 1 to 8.	1902-1903.	2,257	3,614	..	3,614	141	
Harur South range—*cont.*	Experimental cultivation ground in Shevaroys North Working Circle, coupe 4.	1908-1909.	100	100	..	100	..	
Harur North range.	Harur Working Circle—							
	Morappur coupes 1 to 7.	1902 ..	1,313	1,043	..	1,043	28	
	Ponnagarapatti coupes 1 to 7.	1902 ..	1,023	714	32	682	28	
	Poyyapatti coupes 1 to 7 and Vethapatti coupes 1 to 5.	1902 ..	899	1,019	32	987	41 18	
	Ponniar Working Circle—							
	Poovampatti coupes 1 to 6.	1902 ..	1,684	1,444	30	1,414	102	
	Kallavi Working Circle, coupes 1 to 6.	1907-1908.	1,836	1,401	2	1,399	56	
	Elavambadi Working Circle, coupes 1 to 5.	1907-1908.	1,199	1,199	85	1,114	24	
	Harur Working Circle—							
	Harur reserve except coupes 7 to 12.	1882 and 1902.	1,670	1,482	30	1,452	126	
	Chitteri North Working Circle—							
	Tirtamalai coupe 1 ..	1902 ..	451	451	10	441	39	
	Veppampatti coupes 1 to 4.	1902 ..	2,251	1,801	..	1,801	67	
	Total, Fire line and Patrol system.	..	43,858	58,753	1,211	57,542	2,272	
Gang system, Atúr range.	Varagur, Varagur extension and Nayakankombai R.F.	1907 ..	24,311	8,259	..	8,259	61	
Harur South range.	Mallapuram ghat except coupe 5.	1907 ..	23,705	1,246	..	1,246	8	
	Mallapuram ghat extension, Ajjampatti, Mangalakkal, Bonthikal, Northerechedu Extension West and Northwest portion of Northerechedu R.F.	1907 ..		3,719	..	3,719	13	
	Northerechedu and Bodakad except coupes 10 to 13.	1907 ..		2,954	6	2,948	44	
	Vaniar reserve	1907 ..		5,139	..	5,139	40	
	Kuttar and its extension.	1907 ..		6,810	2	6,808	53	
	Total, Gang system ..	..	48,016	28,127	8	28,119	219	
Reward system—Salem East range.	Methikuttai	1910 ..		3,682	77	3,605	No rewards for this year's protection under reward system has yet been awarded.	
	Pungamaduvu and Kuthimaduvu.	1907-1908.	4,190	4,240	1,333	2,907		
	Kurichi	1907-1908.	7,064	2,336	326	2,010		
Harur South range.	Dombakkal Extension, northern portion of Dombakkal.	1907 ..	15,171	10,367	150	10,217		
	Nochikuttai extension, south part of Dombakal and a portion of Nochikuttai R.F.	1907 ..	14,728	10,777	355	10,422		
	Remaining portion of Nochikuttai Reserve.	1907 ..		8,835	949	7,886		
	Pallipatti Reserve except coupes.	1910 ..	..	7,578	470	7,108		
Harur North range.	Kottapatti	1908 ..	11,561	11,561	306	11,255		
	Do. extension ..	1908 ..	13,384	13,384	160	13,224		
	Karungal	1908 ..	5,919	5,919	220	5,699		
	Veppampatti extension ..	1908 ..	4,602	4,602	75	4,527		
	Chitlingi	1908 ..	8,318	8,342	142	8,200		
	Do. extension ..	1908 ..	3,069	3,069	..	3,069		
	Ammapalayam	1908 ..	10,578	10,578	..	10,578		
	Chitteris	1907 ..	3,459	3,459	4	3,455		
	Do. extension ..	1907 ..	5,971	5,971	60	5,911		

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
South Salem—Harur North range.	Kalnad	1907 ..	5,793	5,793	141	5,652		
	Do. extension	1907 ..	1,440	1,440	10	1,430		
	Tirtamalai	1908 ..	14,873	14,873	35	14,838	*Nil.*	
	Veppampatti	Do. ..	8,425	8,879	55	8,824		
	Total, Reward system ..	..	138,545	145,685	4,868	140,817	..	
	Total, under special Fire line and Patrol system.	..	43,858	58,753	1,211	57,542	2,272	
	Reward System ..	..	138,545	145,685	4,868	140,817	Reward not disbursed yet.	
	Gang System ..	..	48,016	28,127	8	28,119	219	
	Total of Salem South Special and General.	..	230,419	232,565	6,087	226,478	2,491	
Trichinopoly area under Special fire protection—Musiri range.	Sengattupatti R. F. ..	1885-86 ..	4,192	4,192	19	4,173	..	
	Manmalai R. F.	1887-88 ..	7,686	7,686	10	7,676	..	
	T. Kanapadi R. F. ..	Do. ..	4,723	4,723	131	4,592	..	
	Karuppan Kadu Thittu R. F.	Do. ..	320	320	..	320	..	
	Mélúr R. F.	1885-86 ..	1,107	1,107	..	1,107	..	
	V. Kanapadi R. F. ..	1887-88 ..	3,795	3,795	..	3,795	..	
	Palamalai R. F.	1888-89 ..	6,624	6,624	80	6,544	..	
	Kaliammankoil Thittu R. F.	1889-90 ..	512	512	..	512	..	
	Kanapadi Kannimar sholai.	Do. ..	345	345	..	345	..	
	Total ..	..	29,304	29,304	240	29,064	86	
Perambalúr range.	Manalodai R. F.	1885-86 ..	3,059	3,059	..	3,059	..	
	Sholamathi R. F. ..	Do. ..	3,584	3,584	..	3,584	..	
	Selaiyur R. F.	1889-90 ..	282	282	..	282	..	
	Puliyur R. F.	1890-91 ..	3,443	3,443	..	3,443	..	
	Sengathur R. F.	Do. ..	1,325	1,325	..	1,325	..	
	Valayur R. F.	1900-01 ..	2,064	2,064	..	2,064	..	
	Arasadi Arivithi R. F. ..	Do. ..	3,546	3,546	..	3,546	..	
	Pulambadi No. 1 ..	Do. ..	2,506	2,506	..	2,506	..	
	Total of Perambalúr range.	..	19,809	19,809	..	19,809	..	
	Total, Special ..	..	49,113	49,113	240	48,873	86	
Area under general protection—Vaiyampatti range—	Shemmalai No. II R. F...	..	..	50	50	..	..	
	Total ..	..	..	50	50	..	..	
	Total of Trichinopoly Special and General.	..	49,113	49,163	290	48,873	86	
	Tanjore—*Nil.*							
Guntúr—Special.	Venkatayapalem reserve Compartments I, II, III	1894-1895.	15,588	15,588	..	15,588	..	
	Bollapalli reserve, Compartments I to VI.	1885-1886.	18,584	18,584	..	18,584	..	
	Coupes in Vinukonda range.	1903-1904.	700	700	..	700	..	
	Gangalagunta reserve ..	1890-1891.	5,008	5,008	..	5,008	..	
	Paswemula reserve ..	1892-1893.	1,088	1,088	..	1,088	..	
	Coupes in Palnad range ..	1905-1906.	4,076	4,076	..	4,076	..	
	Mutukúr reserve ..	1905-1906.	3,245	3,245	..	3,245	..	
	Coupes in Sattenapalli range.	1905-1906.	552	552	..	552	..	
	Kondavid reserve ..	1905-1906.	600	600	..	600	..	
	Tadepalli reserve ..	1905-1906.	300	300	..	300	..	
	Total in acres ..	..	49,741	49,741	..	49,741	..	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		Acs.	Acs.	Acs.	Acs.	Rs.	
Guntúr—General.	Venkatayapalem reserve..	..	24,978	24,978	..	24,978	..	
	Gangalagunta do. ..	..	17,659	17,659	..	17,659	..	
	Paswemula do. ..	..	18,375	18,375	..	18,375	..	
	Total in acres ..	..	61,012	61,012	..	61,012	..	
	Total, Guntúr, Special and General.	..	110,753	110,753	..	110,753	..	
	Circle total, Special ..	..	1,148,174	1,296,095	138,799	1,157,296	14,781	
	Circle total, General ..	..	1,112,885	1,114,692	13,241	1,101,451	4,716	
	Circle total, Special and General.	..	2,261,059	2,410,787	152,040	2,258,747	19,497	
	Southern Circle.							
South Canara—Special protection. Coondapoor range.	Sarpanamane and Savantagudde.	1886–87 ..	1,385	796	10	786	36	
	Honnukodlu	1894–95 ..	576	584	..	584	43	
	Herur	1893–94 ..	2,855	2,884	..	2,884	79	
	Talaturane	1895–96 ..	610	611	..	611	34	
	Chittur	1897–98 ..	2,234	2,234	100	2,134	42	
	Kadike	Do ..	2,794	2,735	..	2,735	30	
	Karnigadde	Do. ..	1,100	1,161	..	1,161	29	
	Gundaberu and Korakoppa coupes.	1904–05 ..	520	301	1	300	63	
	Guruvankote	1905–06 ..	216	..	..	..	..	Transferred to general protection.
	Abbigudde	1897–98 ..	1,407	1,458	.	1,458	40	
	Total, Coondapoor range..	..	13,697	12,764	111	12,653	396	
Udipi range.	Chinkramale and extension II.	1885–86 ..	2,558	2,564	..	2,564	60	
	Tenkabola and extension.	1886–87 ..	2,039	2,043	..	2,043	32	
	Mavinakodlu	1895–96 ..	1,356	1,627	1	1,626	33	
	Jatkatmale	1897–98 ..	1,484	1,386	..	1,386	29	
	Durgamale and extension.	Do. ..	1,601	1,607	1	1,606	56	
	Someshwar timber coupes I to VI.	1895–96 ..	1,067	1,260	..	1,260	80	
	Hale Someshwar and extension.	Do. ..	1,893	1,867	10	1,857	33	
	Vorwadi	1906–07 ..	923	823	..	823	34	
	Andar south coupes I to V.	Do. ..	108	160	..	160	29	
	Andar north coupes I to IV.	Do. ..	27	85	..	85	29	
	Hevea plantation	Do. ..	2	..	..	..	..	Transferred to general protection.
	Total, Udipi range ..	..	13,058	13,422	12	13,410	415	
Mangalore range.	Nujimale	1894–95 ..	3,136	3,200	..	3,200	33	Transferred to general protection.
	Todar	1899–00 ..	458	..	..	..	..	
	Hosabettu	Do. ..	376	..	..	..	..	
	Nanijimale	1897–98 ..	1,436	1,459	110	1,349	23	
	Panamberi	1902–03 ..	612	634	4	630	34	
	Hurabe	1903–04 ..	543	545	45	500	33	
	Kodiamale	Do. ..	1,131	1,169	42	1,127	45	
	Kodialmale	1906–07 ..	698	706	31	675	40	
	Total, Mangalore range ..	..	8,390	7,713	232	7,481	208	
Uppinangadi range.	Dharmastala and extension I.	1887–88 ..	4,645	4,998	..	4,998	97	
	Mujur	1901–02 ..	10,091	10,106	16	10,090	88	
	Miyar	Do. ..	17,024	17,533	400	17,133	89	
	Kombar	Do. ..	1,814	9,396	72	9,324	56	
	Kidu	Do. ..	4,969	6,414	714	5,700	27	
	Konaje	Do. ..	6,623	6,632	136	6,496	72	
	Porkala	1902–03 ..	4,241	1,020	..	1,020	36	
	Padnur	Do. ..	3,151	3,157	..	3,157	57	
	Kuntur and extension I ..	Do. ..	3,936	3,647	370	3,277	67	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS	
South Canara—Special protection—*cont.*	Nerankimale	1902–03 ..	3,795	2,848	53	2,795	53	
	Nidle	Do. ..	2,430	3,258	227	3,031	50	
	Shibaje	Do. ..	2,816	2,944	60	2,884	59	
	Kadambilla	Do. ..	1,745	1,848	5	1,843	34	
	Porkala coupes I to III and V.	1904–05 ..	1,997	4,050	1	4,049	107	
Uppinangadi range—*cont.*	Nerankimale coups I and III.	1907–08 ..	1,920	1,112	640	472	8	
	Total, Uppinangadi range.	..	71,197	78,963	2,694	76,269	900	
Puttur range.	Parappa	1896–97 ..	2,551	2,560	.	2,560	106	
	Kanakamajulu	1899–1900.	2,242	2,249	20	2,229	76	
	Veerakamba	1897–98 ..	1,612	1,605	31	1,574	54	
	Kalanjimale	1898–99 ..	3,011	2,898	21	2,877	67	
	Kilarmale cardamom plantation.	1901–02 ..	100	..	..	..	..	Transferred to General protection.
	Mulliar	1903–04 ..	2,112	2,116	3	2,113	83	
	Medinadka and extension.	..	..	3,843	185	3,658	37	
	Total, Puttur ..	..	11,628	15,271	260	15,011	423	
	Total, South Canara—Special.	..	117,970	128,133	3,309	124,824	2,342	
General protection—	Coondapur range	..	7,790	141,588	565	141,023	324	
	Udipi range	..	3,080	59,858	212	59,646	32	
	Mangalore range	..	..	28,099	551	27,548	..	
	Uppinangadi range ..	..	282	92,302	2,049	90,253	10	
	Puttur range	..	..	109,490	2,151	107,339	3	
	Total, South Canara—General.	..	11,152	431,337	5,528	425,809	369	
	Total, South Canara—Special and General.	..	129,122	559,470	8,837	550,633	2,711 (*b*)+ 764	
Malabar, North—Special Chedleth range.	Kurphiyat	1887–88 ..	17,953	18,053	..	18,053		
	Kuppadi	Do. ..	7,337	7,337	..	7,337		
	Rampur	Do. ..	14,854	18,854	100	18,754	2,029	
	Mavanhalla ..	Do. ..	12,436	12,736	725	12,011		
	Nulpoya	1908 ..	3,458	3,458	..	3,458		
	Total, Chedleth ..	..	56,038	60,438	825	59,613	2,029	
Begur range.	Begur reserve	1882–83 ..	14,651	15,366	50	15,316		
	Kudrakotte reserve ..	1905–06 ..	4,041	4,047	..	4,047	1,337	
	Tirunelli	1909–10 ..	..	5,600	5,600	..		
	Hill dale	Do. ..	..	7,500	7,500	..		
	Total, Begur ..	..	18,692	32,513	13,150	19,363	1,337	
Kanoth range.	Kanoth	1908 ..	20,033	20,083	..	20,083		
	Peria	Do. ..	13,712	13,712	..	13,712	333	
	Kottiyur	Do. ..	13,715	13,715	..	13,715		
	Total, Kanoth ..	..	47,460	47,510	..	47,510	833	
	Total, North Malabar ..	..	122,190	140,461	13,975	126,486	4,199 (*a*) + 201	
Malabar, South—Special Nilambúr range.	Old Amarampalam reserve.	1860–61 ..	468	468	..	468	66	
	Chathamborai do. ..	1872–73 ..	624	624	..	624	138	
	Teak plantations	1842–13 ..	3,516	3,516	..	3,516	625	
	Edakode natural forests (including Vellachipally).	1898–99 ..	3,228	3,263	..	3,263	124	
	Pokote natural forests ..	1904–05 ...	525	525	..	525	69	
	Arimbrakuthamalai ..	1899–1900.	322	322	10	312	57	
	Kanakuth natural forests.	1908–09 ..	653	668	..	668	63	
	Erambadam natural forests.	Do.	575	581	.	581	65	
	Total, Nilambúr ..	..	9,911	9,967	10	9,957	1,207	

(*a*) Variations as per Accountant-General audited figures.

(*b*) Fire tracing cart tracks 6
Fire tracing South Canara-Mysore boundary 674
Cost of previous season disbursed during 1909–1910 84
Total .. 764

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
Malabar South—Special—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Amarampalam range.	Karimpoya reserve ..	1884-85 ..	3,955	3,955	2	3,953	393	
	Nellikutha do. ..	1883-84 ..	1,816	1,824	..	1,824	140	
	New Amarampalam do. ..	1889-90 ..	75,000	75,000	..	75,000	267	
	Kariem, Muriem forests ..	1901-02 ..	2,710	2,716	..	2,716	195	
	Total, Amarampalam ..	..	83,481	83,495	2	83,493	995	
Mannarghat range.	Panakadan reserve ..	1905-06 ..	902	1,104	..	1,104	95	
	Total, South Malabar ..	..	94,294	94,566	12	94,554	2,297	
The Nilgiris—Special protection—Mudumalai range.	Mudumalai leased forests.	1883 ..	2,400	48,000	3,600	44,400	2,995	
	Benne reserve	1886 ..	350	350	..	350		
	Total, Mudumalai ..	..	2,750	48,350	3,600	44,750	2,995	
Sigur range.	Moyar reserve, Northern Hay and Moyar plantations and Sigur sandalwood block.	1886 ..	11,016	14,180	3,000	11,180	637	
Ootacamund range.	Exotic plantations ..	1883 ..	1,166	1,170	2	1,168	105	
Coonoor range.	Exotic plantations ..	1883 ..	515	686	..	686	64	
	Sandalwood area	Do. ..	640	640	..	640		
	Other reserves	Do. ..	247	775	..	775		
	Total, Coonoor ..	..	1,402	2,101	..	2,101	64	
	Total, The Nilgiris—Special.	..	16,334	65,801	6,602	59,199	3,801	
Kollegal—Special protection—Kollegal range.	Bailur sandalwood compartment.	1895-96 ..	3,033	3,034	..	3,034	81	
	Udaiyárpálaiyam sandalwood compartment.	Do. ..	1,321	1,321	..	1,321	55	
	Jadathadi sandalwood compartment.	Do. ..	235	235	..	235	22	
	Aluvarai block	1903-04 ..	4,313	4,313	60	4,253	61	
	Araipalayam Working Circle.	Do. ..	3,144	3,144	180	2,964	68	
	Gundal Working Circle..	Do. ..	1,846	1,824	..	1,824	85	
	Chickailur Working Circle.	Do. ..	2,935	2,975	..	2,975	81	
	Lokanhalli-Honnaibarai block.	1906-07 ..	19,200	19,200	..	19,200	135	
	Total, Kollegal ..	..	36,027	36,046	240	35,806	588	
Ramapuram range.	Ponnachibetta Madeswaranmalai reserve.	1906-07 ..	32,780	32,780	3,904	28,876	105	
	Mayilbetta block, Madeswaranmalai reserve.	1908-09 ..	2,048	2,048	.	2,048	61	
	Total, Ramapuram ..	..	34,828	34,828	3,904	30,924	166	
	Total, Kollegal Division—Special.	..	70,855	70,874	4,144	66,730	754 + (*a*) 132 (*b*) + 290	
General protection.	Kollegal and Ramapuram Ranges.	..	(*a*)394,146	396,824	55,773	341,051	..	
	Total, Kollegal Division—Special and General.	..	465,001	467,698	59,917	407,781	1,226 (*c*) + 16	
North Coimbatore—Special. Satyamangalam range.	Hassanur sandalwood compartment.	1895-96 ..	2,140	2,140	4	2,136	54	
	Geddasal Timber coupes, I and II.	1902-03 ..	4,434	4,704	..	4,704	29	
	Minchiguli Fire protected block.	1909-10 ..	..	19,721	3,060	16,661	77	

(*a*) Amount spent on clearing Mysore frontier line and Taluk boundary line.
(*b*) Pay of establishment. (*c*) Added as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Coimbatore—Special—*cont.* Talamalai range.	Talamalai sandalwood compartment.	1897-98 ..	585	589	..	589	21	
	Badagalli sandalwood compartment.	1896-97 ..	685	685	..	685	6	
	Hugathurbetta block ..	1903-04 ..	2,428	3,068	..	3,068	25	
	Kontibetta block	1905-06 ..	8,324	8,960	..	8,960	25	
Satyamangalam range.	Uginium Oshatti plateau.	1906-07 ..	12,800	12,800	..	12,300	72	
Bhavani range.	Thamarakarai reserve and sandalwood areas.	1908-09 ..	7,571	7,577	450	7,127	117	
	Clearing lines round the enclosures of Talakarai, Kengodai, Burgur, Oosimalai, Thattakerai, Bejallati, Madameratti Ondanai and Thamarakarai.	Do. ..	1,810	1,810	..	1,810	115	
	Total, North Coimbatore—Special.	..	40,777	62,054	3,514	58,540	541 (*c*) + 429 (*d*) + 286	
North Coimbatore—General.	Satyamangalam range ..	..	(*a*)164,824	165,332	4,522	161,310	..	
	Talamalai range	..	(*a*)130,394	135,194	..	135,194	..	
	Bhavani do.	..	(*a*)211,366	214,753	6,598	208,155	..	
	Total, North Coimbatore—General.	..	(*a*)506,584	515,779	11,120	504,659	..	
	Total, North Coimbatore—Special and General.	..	547,361	577,833	14,634	563,199	1,256	
Central Coimbatore—Special. Bolampatti range.	Sholakarai Working Circle.	1883-84 ..	1,157	1,157	907	250	1,060	
	Thenkaradu	Do. ..	393	393	..	393		
	Oratti	Do. .	1,136	1,136	..	1,136		
	Kutchimalai . ..	Do. ..	1,515	1,545	..	1,545		
	Keerapatti	Do. ..	2,260	2,260	..	2,260		
	Noyel	Do. ..	10,072	10,920	4	10,916		
	Vellingiri	Do ..	5,162	5,240	845	4,395		
	Varadimudi	Do. ..	7,956	7,960	..	7,960		
	Kanavarai	Do. ..	13,845	13,880	253	13,627		
	Tadagam Working Circle.	1908-09 ..	287	287	287	..		
	Naickenpalaiyam	Do. ..	239	239	9	230		
	Walayar reserve	1873-74 ..	3,010	3,017	80	2,937		
Attapadi range.	Chenat Nair reserve ..	1884-85 ..	14,353	15,203	..	15,203	401	
	Dhoni reserve	1898-99 ..	45	45	..	45		
	Pulliampalli tope ..	1900-01 ..	20	20	..	20		
	Tambirattipettai Patti ..	1891-92 ..	119	124	20	104		
Mettupalaiyam range.	Singaratope Working Circle.	1891-92 ..	777	777	..	777	892	
	Oodanthorai Working Circle.	1908-09 ..	852	852	..	852		
	Nellimalai Working Circle.	Do. ..	483	483	..	483		
	Sundapatti Working Circle.	Do. ..	401	401	..	401		
	Thadagam Working Circle.	Do. ..	88	88	10	78		
	Jackanare Working Circle.	Do. ..	518	518	230	288		
	Hullical do.	Do. ..	401	401	..	401		
	Kotagiri road Working Circle.	Do. ..	723	723	..	723		
	Total, Central Coimbatore—Special.	..	65,812	67,669	2,645	65,024	2,353	
General.	Mettupalayam and Bolampatti ranges.	..	97,208	97,464	230	97,234	..	
	Erode range	..	..	15,409	3	15,406	..	
	Attapadi range	..	..	51,770	450	51,320	..	
	Total, Central Coimbatore—General	..	97,208	164,643	683	163,960	..	
	Total, Central Coimbatore—Special and General.	..	163,020	2,32,312	3,328	228,984	2,353 (*b*) + 1	

(*a*) Areas not shown in last year's return.
(*b*) Variations as per Accountant-General's audited figures.
(*c*) Amount spent on clearing Mysore boundary, etc.
(*d*) Pay of fire patrols.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
			ACS.	ACS.	ACS.	ACS.	RS.	
South—Coimbatore—Special—Tunacadavu range.	*Southern Circle*—cont.							
	Tekadi leased forests ..	1882-83 ..	17,414	17,414	289	17,125	1,044	
Pollachi and Punachi ranges.	Portion of Tunacadavu reserve No. I.	Do. ..	8,960	8,960	659	8,301	553	
	Punachi reserve No. II.	1888-89 ..	2,880	2,880	6	2,874		
Udamalpet range.	Dhalli reserved forest ..	1883-84 ..	485	630	..	630	65	
	Amaravathi Working Circle.	1908-09 ..	101	237	..	237		
	Kamanuthu Working Circle.	Do. ..	107	208	..	208		
	Dhalli Working Circle ..	1909-10 ..	..	317	..	317		
	Total, South Coimbatore—Special.	..	29,947	30,646	954	29,692	1,662	
General ..	Tunacadavu range ..	..	24,226	24,226	..	24,226	..	
	Tunacadavu, Pollachi, Punachi and Udamalpet ranges.	..	232,793	*169,958	230	169,728	..	
	Total, South Coimbatore—General.	..	257,019	194,184	230	193,954	..	
	Total, South Coimbatore—Special and General.	..	286,966	224,830	1,184	223,646	1,662	
Madura—Special.	Ambruvi	1886-87 ..	10,674	10,769	300	10,469	1,897	
	Sengalvarayar	1885-86 ..	4,608	4,608	..	4,608		
	Pambar	1883-84 ..	3,783	4,243	200	4,043		
	Adukkam	1885-86 ..	5,725	5,935	257	5,678		
	Poombarai Vilpatti valley.	1884-85 ..	17,594	17,594	72	17,522		
	Kurungal Dhoni Medu ..	1885-86 ..	2,786	2,816	8	2,808		
	Kukkal	1886-87 ..	11,725	11,725	..	11,725		
	Kudaryar	Do. ..	13,235	13,235	..	13,235		
	Perumalmalai							
	Thogavaraishola	Do. ..	7,360	7,360	1,800	5,560		
	Talayarkadu							
	Kadamaruvu							
	Obeynathur odai	1888-89 ..	4,352	4,352	25	4,327		
	Parappar	1902-03 ..	56	56	15	41		
	Gundar valley extension.	Do. ..	5,860	5,860	..	5,860		
	Ampthill Down reserve..	Do. ..	31,219	31,276	350	30,926		
	Perumalmalai shola ..	Do. ..	280	280	277	3		
	Anagiri	Do. ..	76	76	..	76		
	Tiger shola	Do. ..	1,259	1,260	..	1,260		
	Glen falls	Do. ..	36	36	..	36		
	Gundar valley	Do. ..	4,590	4,590	250	4,340		
	Samikanal	Do. ..	1,620	1,620	700	920		
	Keelanavayal	Do. ..	559	559	..	559		
	Alagarhill	1882-83 ..	16,838	16,838	..	16,838	580	
	Total, Madura—Special.	..	144,220	145,088	4,254	140,834	2,477 (a) + 13	
Tinnevelly—Special. Srivilliputtur.	Aiyanarcoil Working Circle.	1902 ..	4,061	4,722	902	3,820	141	
Sankaranayinarkoil.	Karuppaswamikoil Working Circle.	Do. ..	5,751	6,155	..	6,155	229	
	Puliangudi Working Circle.	1907 ..	2,893	2,897	3	2,894	80	
Tenkási ..	Kadayanallur Working Circle.	1902 ..	2,446	2,446	70	2,376	34	
	Kuttalam Working Circle.	Do. ..	2,640	2,644	12	2,632	98	
Ambasamudram.	Koilteri Working Circle.	Do. ..	2,013	2,013	..	2,013	89	
	Padarmalai ,,	Do. ..	3,045	3,045	10	3,035	94	
	Sivasylum ,,	1907 ..	3,154	3,154	..	3,154	60	
Nanguneri.	Kalakad ,,	1902 ..	2,918	2,918	..	2,918	166	
	Tirukurungudi ,,	Do. ..	2,538	2,538	..	2,538	105	
	Kopparai ,,	1905 ..	1,245	1,245	..	1,245	71	
	Total, Tinnevelly—Special.	..	32,704	33,777	997	32,780	1,167	

* Excludes area of evergreen forests. (a) Expenditure incurred in putting out fires.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General ..	Srivilliputtur	1902 ..	32,132	38,791	525	38,266	302	
	Sankaranainarkoil ..	Do. ..	19,629	20,879	1,300	19,079	356	
	Tenkasi	Do. ..	20,201	21,664	4,667	16,997	383	
	Ambasamudram	Do. ..	103,020	104,740	13,270	91,470	275	
	Nanguneri	Do. ..	44,145	44,848	2,158	42,690	110	
	Total, Tinnevelly—General.	..	219,127	230,422	21,920	208,502	1,426	
	Total, Tinnevelly—Special and General.	..	251,831	264,199	22,917	241,282	2,593 (*b*) — 1	
	Total, Southern Circle, Special.	..	735,103	839,069	40,406	798,663	22,793	
	Total, Southern Circle, General.	..	584,506 (*a*)+900,730	1,933,189	95,254	1,837,935	1,795	
	Grand total, Southern Circle.	..	1,319,609 (*a*)+900,730	2,772,258	135,660	2,636,598	24,588 + 764 (*b*) + 217	
	Total, Presidency—Special.	..	2,346,045	2,857,754	330,920	2,526,834	84,901	
	Total, Presidency—General.	..	2,175,442 (*a*)900,730	3,655,695	259,382	3,396,313	20,603	
	Grand total—Presidency.	..	4,521,487 (*a*)900,730	6,513,449	590,302	5,923,147	105,504	

(*a*) Areas not shown in last year's return. (*b*) Variations as per Accountant-General's audited figures.

Annual Form No. 73.

Forest Department, Madras Presidency.

Area closed and open to grazing during 1909-1910.

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Area closed to goats only.	Open to all animals.	Total forest area as per Form No. 65.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	87	..	..	..	598	..	598
Vizagapatam ..	10	..	288	..	10	..	298
	..	..	4	..	..	..	4
Gódávari, Upper	1	..	..	..	428	..	428
Do. Lower ..	13	..	271	..	136	..	407
	75	..	..	..	75	..	75
Kistna	37	7	..	..	197	74	278
	..	..	..	..	..	19	19
Kurnool, East	187	83	..	..	1,395	..	1,478
Do. West	196	11	..	..	1,151	..	1,162
Bellary	70	..	..	..	459	165	624
	33	..	..	..	33	33	66
Anantapur	105	..	..	..	535	..	535
	..	..	..	..	29	..	29
Total. ..	706	101	559	..	4,909	239	5,808
	108	..	4	..	137	52	193
Central Circle.							
Cuddapah, North	35	..	..	..	654	82	735
						18	1
Do. East	89	..	..	..	1,065	16	1,083
Do. South	12	..	..	..	513	65	529
Nellore	33	4	60	2	606	2	737
Chingleput	41	..	..	..	211		213
Arcot, North ..	161	..	..	..	1,262	30	1,289
							5
Do. South	24	..	..	..	666	..	666
Salem, North	72	..	72	..	846	59	931
							45
Do. South	55	..	..	..	676	..	670
							6
Trichinopoly	17	..	..	..	285	..	280
							5
Tanjore	6	..	..	..	20	..	19
							1
Guntúr	167	..	..	..	695	119	814
Total ..	712	4	132	2	7,499	391	7,966
							62
Southern Circle.							
Canara, South	11	..	..	..	861	..	872
	..	..	..	..	114	..	114
Malabar, North	30	..	231	..	..	..	261
	..	..	1	..	..	..	1
Malabar, South	163	..	..	..	..	..	163
	64	..	..	..	..	..	64
Nilgiris, The	8	..	..	..	474	..	482
	2	..	..	..	84	..	86
Kollegal	96	..	..	..	351	..	447
	10	..	..	..	248	..	258
Coimbatore, North ..	14	2	..	..	887	..	903
	* ..	* ..	..	..	15	* 1	16
Coimbatore, Central ..	53	1	..	..	253	..	307
	47	..	..	..	..	..	47
Coimbatore, South ..	20	..	..	..	437	..	457
Madura	109	..	..	..	451	106	666
Tinnevelly	233	39	3	..	162	..	437
	2	..	..	..	..	..	2
Total, Southern Circle ..	737	42	234	..	3,876	106	4,995
	125	..	1	..	461	1	588
Grand total	2,155	147	925	2	16,284	736	18,769
	233	..	5	..	598	53	843

N.B.—Of the figures in brackets, the upper ones denote the area of reserved forests and the lower ones the area of reserved lands.

* The area of columns 2, 3 and 7 is individually below 1 square mile, but collectively 1 square mile.

ANNUAL

Forest Department,

RETURN of Grazing in the

District.	Grazing on payment. Number									
	At enhanced or special rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.					RS.					RS.
Ganjám (a-12)	..	..	..	..	..	11,530	39,403	S 270	..	11,737
Vizagapatam	(a) 117	(a) 3,225	(a) S 3,935	..	1,357	1,316	17,515	S 3,844	..	4,138
Gódávari, Upper	(b) 33	(b) 7,237	..	..	2,278	..	..	..	..	..
Do. Lower	(a) 10,053 (f) 987	(a) 13,626 (f) 396	..	..	9,322	(g) 1,994	(g) 13,141	.. Penalty collected for loss of permits. Sale-proceeds of fodder grass.	..	2,141 3 129
Kistna	..	(i) 2,560	(i) G 7,303	..	9,049	7,439	23,953	S 19,532	..	9,112
Kurnool, East	(j) 1,079 (a) 8,620	(j) 8,720 (a) 81,015	(j) S 3,115 (a) S 45,988	..	30,312	2,387	12,025	S 44,138	..	7,288
	..	(X) 3,036	(X) S 1,706	..	486	..	..			
Do. West	(a) 9,555	(a) 31,910	(a) 13,743	Fodder grass 114 C.L.	14,509	6,139	37,244	S 25,638	Fodder grass 14 C.L.	11,693
Bellary	..	..	..	..	..	11,887	47,046	S 176,606 G 120,998	..	41,179
Anantapur	..	..	..	..	..	3,093	42,879 (k) 2,678	S 118,169 (k) 12,488	..	21,114
Total ..	30,444	1,51,725	S 68,487 G 7,303	Fodder grass 114 C.L.	67,313	45,785	235,884	S400,685 G120,998	Fodder grass 14C.L.	1,08,534
Unreserved lands— Gódávari, Lower ..	(a) 5,901	(a) 8,584	(a) S 30	..	5,100	..	..	Sale proceeds of pasture.		980
CENTRAL CIRCLE.										
Cuddapah, North	..	..	..	..	..	1,252	30,831	13,331 G ..	.. ..	23,764 (m) 2
								115,721 S	..	(n) 766
Do. East	..	..	..	..	..	4,737	43,095	4,285 G 89,859 S	.. ..	20,423
Do. South	..	..	..	..	..	2,667	54,816	496 G 81,320 S	.. ..	19,149
Nellore	..	(l) 70,943	(l) 27,129 G 142,356 S	..	42,313	..	..	..	..	3,155
	..	..	..	..		8,413	..			
Chingleput	..	..	..	..	..	3,213	35,553	537 G 61,105 S	.. ..	13,734 (n) 1,913
Arcot, North	..	..	..	..	..	5,881	127,796	8,604 G 138,565 S	.. ..	45,611
Do. South..	..	(s) 17,929	(t) 105 S	..	4,503	5,191	113,534	172,280 S	..	39,386
Salem, North	(p) 1,906 (a-7) 20	(w) 83,767 (a-6) 42	(x) 21,802 S (a-5) 8,340 G	..	(o) 28,800 (a-9) 437	257	49,844	16,865 S	..	(a-3) 11,440
	..	(a-8) 20	..	..	..	..	..			
Do. South..	..	..	..	..	..	1,698	110,657	48,440 S	..	(a10) 25,933
Trichinopoly	..	..	..	..	..	1,061	25,109	133,211 S	..	17,594
Tanjore	..	..	..	..	..	243	1,624	3,062 S	..	(a-4) 838
Guntúr	(y) 667	(y) 3,534	(y) 5,970 G 12,756 S	..	3,558	10,009	12,270	19,959 G	..	15,000
	(z) 6,064	(z) 68,538	(z) 59,691G 102,847S	..	60,726	..	..	75,462 S	..	
	..	(a-1) 521		..	293	..	..	..	..	..
	..	(a-2) 3,629	..	..	3,629	..	..	..	..	..
Total ..	8,657	248,923	101,130 G 279,866 S	..	144,259	44,622	605,129	47,212 G 935,890 S	..	2,38,708

G = Goats. S = Sheep. X = Young ones at half rates. C.L. = Cart Loads.

The full rates are 6 annas per buffalo, 3 annas per cow and annas 1-6 per sheep.

(a) The enhanced rates are 8 annas per buffalo, 4 annas per cow or bullock and 2 annas per sheep.

(b) The enhanced rates are 8 annas per buffalo, 5 annas per bullock or cow for alien cattle in the Nugur Range.

(c) The special rates in the Nugur Range per way cattle are 2 annas per buffalo, 1 anna per cow or bullock, 9 pies per goat and 6 pies per sheep.

(d) The privileged rates in the Nugur Range are 4 annas per buffalo, 2 annas per cow or bullock, 1 anna 3 pies per goat, 1 anna per sheep and 2 annas per horse.

(e) The privileged rates in the Bhadráchallam, Marrigudem and Rekapalle Ranges are 2 annas per buffalo, 1 anna per cow and 6 pies per sheep.

(f) The enhanced rates are 12 annas per buffalo and 6 annas per cow or bullock.

(g) The full rates in Gódávari, Lower, are 4 annas per buffalo and 2 annas per cow or bullock.

(h) The privileged rates are 1 anna per buffalo and 1 anna per bullock or cow.

(i) The enhanced rates are 1 rupee per bullock and 4 annas per goat.

(j) The enhanced rates are 12 annas per buffalo, 6 annas per cow and 3 annas per sheep.

(k) The rates are 1 anna 6 pies per cow and 9 pies per sheep.

(l) Cow or bullock at As. 4, sheep As. 2 and goats As. 4.

(m) Penning fees.

(n) Compounding fees.

(o) Ninety-nine cows at As. 1-6 and 82 cows at 1 anna.

(p) Three hundred and fifty sheep at 9 pies and 342 sheep at 6 pies.

(q) Less than a rupee.

(r) Includes kancha rent and value of chits for fodder grass and leaves and advance payments made by G.P.I.Os.

(s) Forty-three cows at As. 5 per cow for grazing in three blocks on a single permit.
Thirty cows at As. 6 per cow for grazing in the plantations. 17,856 foreign cows at As. 4 per cow.

(t) 50 sheep at As. 2 to graze in two blocks on a single permit. 55 sheep at As. 2-6 to graze in three blocks on a single permit.

(a-12) Excludes 47 cows and bullocks licensed to graze on payment in the Chandragiri Range, Parlákimedi Maliahs, the fees realised being Rs. 8-13-0.

FORM No. 74.

Madras Presidency.

State forests during 1909-1910.

of animals.						Grazing free. Number of animals.											
At privileged rates.						By right under settlement.					During pleasure of Government or otherwise than under settlement.						
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28.	29
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11,737
..	..	..	..	..	..	..	200	..	..	38	..	4,939	..	..	926	964	6,459
(c) 60	(c) 9,204	(c) G 102 (c) S 231	..	595	1,779												
(d) 5,623	(d) 27,052	(d) G 4,964	(d) 8	5,390	7,969	..	..	..	..	..	4,217	48,693	153	..	10,726	10,726	30,084
(e) 5,812	(e) 23,770	(e) S 7,446	..	2,444	7,332												
(h) 375	(h) 15,750	..	..	883	2,719												
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14,314
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18,161
..	..	..	..	..	..	125	25	S 150 G 910	..	151	..	..	..	..	..	151	38,237
..	..	..	..	..	..	..	1,491	8,303	..	786	..	..	..	..	..	786	26,988
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41,179
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21,114
11,870	(a-11) 75,786	(a-11) G 5,066 S 7,677	8	9,312	19,799	125	1,716	S 3,453 G 910	..	975	4,217	53,632	153	..	11,652	12,627	2,08,273
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6,080
..	73	200 S	..	16	32	..	..	..	..	..	..	..	..	..	..	..	24,564
..	(o) 181	(p) 692 S	..	42	99	..	388	..	..	73	..	242	..	..	45	118	20,640
..	2	..	..	6	(q)	..	..	..	..	..	..	..	..	..	..	..	19,149
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(r) 55,401
..	..	..	..	..	..	..	..	..	..	..	..	60	..	..	11	11	15,658
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45,611
..	..	..	..	..	..	..	..	..	..	..	(u) 438	(u) 1548	(u) 31	..	457	457	44,346
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40,677
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25,933
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17,594
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	838
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	83,200
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	256	892 S	..	64	131	..	388	..	..	73	438	1,850	31	..	513	586	(a—I1) 3,93,611

(u) Cattle of Malayalis allowed free on the Tenmalais.
(r) At As. 8.
(w) At As. 4.
(x) At As. 2.
(y) Buffalo at As. 8, cow or bullock As. 4 and goat or sheep at As. 2.
(z) ,, at As. 12 ,, As. 6 ,, ,, at As. 3.
(a-1) Cow or bullock at As. 9.
(a-2) Plough bullock at Re. 1 each.
(a-3) Includes excess collection of Rs. 416-6-9.
(a-4) Includes penning licenses for 500 sheep and sale-proceeds of permit books sold to P.I.Os.
(a-5) At As. 8.
(a-6) 42 cows at As. 2.
(a-7) At As. 3.
(a-8) At 9 pies.
(a-9) Pen license fee for 437 cattle at Re. 1 each.
(a-10) Includes excess remittance, value of fodder grass and value recovered for cutting off a figure in a permit.
(a-11) Corrected in the Board's Office.

Return of Grazing in the

District.	Grazing on payment. Number									
	At enhanced or special rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.					RS.					RS.
Reserved Forests.										
South Canara	..	..	..	..	..	5,264	36,986	..	..	8,909
Malabar, North	..	..	..	..	..	3,189	6,109	..	(*b*) 1	(*g*) 2,319
The Nilgiris	..	(*c*) 1,479 (*d*) 40	..	..	750	9,262	19,352 (*d*) 424	S 1,465	109	(*i*) 7,539
* Kollegal (*f*)	2,745	78,306	S 10,706	..	22,287	..	..	..	..	..
* Coimbatore, North (*f*) ..	6,582	90,526	S 32,312	..	(*h*) 29,996	..	..	..	..	..
Do. Central ..	..	..	..	..	..	146	21,189	S 13,622	..	(*j*) 5,676
Do. South ..	..	..	..	..	..	591	19,472	S 4,469	..	(*k*) 4,372
Madura (*f*)	305	63,213	S 48,754 G 45,561	419	44,935	..	..	..	..	..
Tinnevelly	..	..	..	..	..	590	26,066	S 35,793	..	(*l*) 8,524
Total ..	9,632	238,564	S 91,772 G 45,561	419	97,968	19,042	129,598	55,349	110	37,539
Reserved lands.										
The Nilgiris	..	..	..	..	..	..	..	..	..	..
Grand Total, Presidency ..	54,634	642,796	S 440,155 G 153,994	419	314,640	109,449	970,611	S 1,391,924 G 168,210	110	385,761

G = Goats. S = Sheep.

* Particulars for reserved forests and reserved lands not furnished separately in the district returns.

Full rates.—As. 6 per buffalo, As. 3 per cow, bullock or other animals and As. 1-6 per sheep.

(*a*) As. 3 per buffalo, cow or bullock.
(*b*) Rs. 6-12-5 for an elephant.
(*c*) As. 8 per cow or bullock.
(*d*) Calves, half rates.
(*e*) As. 3 per 100 per *diem*.

State forests during 1909–1910—*cont.*

of animals.						Grazing free. Number of animals.										
At privileged rates.						By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				Rs.	Rs.										Rs.	Rs.	Rs.
(a) 4,270	(a) 2,356	..	..	(a)1,242	2,043	..	..	..	..	..	..	..	..	..	..	..	10,959
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,312
..	(e) 209	..	..	4	39	..	..	..	..	..	..	23	..	..	4	4	8,332
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22,287
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29,996
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,876
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4,372
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44,935
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8,524
4,270	2,565	..	..	1,246	2,082	..	..	..	..	..	..	23	..	..	4	4	1,37,593
..	..	..	..	..	..	..	..	..	..	..	1,532	..	..	..	574	574	574
16,140	78,607	S 8,569 G 5,066	8	10,622	22,012	125	2,104	S3,453 G 910	..	1,048	6,187	55,505	184	..	12,743	13,791	746,131

(*f*) As. 8 per buffalo, As. 8 per goat, As. 4 per cow or bullock or other animals, and As. 2 per sheep.

(*g*) Excludes Rs. 29 paid in advance last year by permit-issuing officers.

(*h*) Includes Rs. 35, the sale-proceeds of fodder grass.

(*i*) Do. Rs. 240 do. do.

(*j*) Includes Rs. 309, the lease amounts of grazing areas and of fodder grass, and Rs. 262 paid in advance by permit-issuing officers for purchase of permits.

(*k*) Includes Rs. 81 paid by permit-issuing officers for purchase of permits.

(*l*) Includes Rs. 60, penning fees.

ABSTRACT of animals licensed to graze on payment.

Circle.	Buffaloes.	Bullocks and cows.	Sheep.	Goats.	Other animals.	Total.
1	2	3	4	5	6	7
Northern Circle ..	94,000	(a) 471,979	(a) 476,879	133,367	8	(a) 1,176,233
Central Circle ..	53,279	854,308	1,216,648	148,342	..	2,272,577
Southern Circle ..	32,944	365,727	147,121	45,561	529	591,882
Grand Total Presidency	180,223	1,692,014	1,840,648	327,270	537	4,040,692

(a) Corrected in the Board's office.

Annual Form No. 75.

Forest Department, Madras Presidency.

Artificial reproduction, 1909-1910.

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1909.	Added during the year.	Excluded during the year.	Area on 30th June 1910.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
Northern Circle.										
A.—Regular Plantations.										
	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	348		..	348	..	738	33,900	7,725	98	11,365
Vizagapatam	78	..	..	78	..	5	..	5	197	1,575
Gódávari, Lower	776	57	2	831	2,976	2,609	38,757	13,363	10,226	46,661
Kistna	1,114	51	48	1,117	2,676	5,653	18,194	28,494	6,227	45,397
Kurnool, East (*a*)	223	18	202	39	7,244	1,226	25,822	16,297	..	..
Do. West	421	144	..	565	36,341	2,142	1,26,210	15,751	25	722
Bellary	246	100	..	346	560	22,552	5,898	39,260	..	..
Total ..	3,206	370	252	3,324	49,797	34,925	2,48,781	1,20,895	16,773	1,05,720
Central Circle.										
A.—Regular Plantations.										
Cuddapah, North	..	..	..	..	..	..	..	..	..	..
Do. East	1,500	..	4	1,496	..	338	Not known.		64	Not known.
Do. South	19	..	..	19	315	219	315	443	6	Do.
Nellore	5,255	10	..	5,265	13,013	..	1,03,699	..	55,685	3,52,014
Chingleput	(*b*) 289	17	..	306	1,494	236	1,899	3,204	466	8,085
Arcot, North	1,175	123	123	1,175	638	2,014	8,098	1,27,689	6,733	56,524
Do. South	885	62	15	932	2,062	503	26,779	2,734	10,052	1,21,465
Salem, North	585	..	..	585	..	..	8,414	20,352	590	6,311
Do. South	617	..	..	617	..	36	34,952	8,530	753	8,714
Trichinopoly	..	..	..	..	..	..	..	..	..	..
Tanjore	549	10	..	559	..	1,422	Not known.		1,937	Not known.
Guntúr	(*c*) 1,670	454	288	1,836	11,317	1,721	31,751	5,441	4,687	11,743
Total ..	12,544	676	430	12,790	28,839	6,489	2,15,907	1,68,393	80,973	564,856
Southern Circle										
A.—Regular Plantations.										
South Canara	122	4	4	122	..	326	2,263	6,536	1,603	15,702
Malabar, North	870	..	..	870	..	826	15,164	16,382	..	..
Do. South	5,978	137	..	6,115	3,678	4,555	5,30,629	5,07,036	1,17,957	13,72,804
The Nilgiris	1,645	42	..	1,687	1,130	11,922	1,130	2,75,191	20,093	4,40,551
Coimbatore, Central	291 † + 86	72	..	449	116	..	258	137	..	..
Do. South	36	27	..	63	535	77	6,984	158	..	..
Madura	325	‡ 23	..	348	5,108	..	6,000	481	1,190	1,190
Tinnevelly	1,488	144	..	1,632	498	506	2,640	3,232	..	..
Total ..	10,841	449	4	11,286	11,065	18,212	5,65,068	8,09,153	1,40,843	18,30,247
Grand Total, Plantations, Presidency.	26,591	1,495	686	27,400	89,701	59,626	10,29,756	10,98,441	2,38,589	25,00,823
Northern Circle.										
B.—Taungya Plantations.										
Gódávari, Upper	125	..	..	125	47	..	1,826	586	..	934
Central Circle.										
B.—Taungya										
Arcot, North	1,436	..	..	1,436	..	752	..	1,959	..	..
Trichinopoly	595	..	..	595	..	..	..	..	1,544	..
Total ..	2,031	..	..	2,031	..	752	..	1,959	1,544	..

(*a*) These are as per revised return submitted to Board with Collector's No. R. Dis. 2/F.E., dated 8th January 1910.

(*b*) The difference between this and the last year's closing balance is due to the omission from the last year's district return of 5 acres planted with casuarina.

(*c*) The difference between the last year's closing balance and this year's opening balance, viz., 130 acres, is due to the said area having been replanted and included in column 3.

* The closing balance of 55 acres has been omitted to be brought forward as the Collector has reported that there is no regular plantation and that it is not known under what circumstances the area, 55 acres, was shown in the previous year's return.

† Omitted from last year's return and added to opening balance by Collector.

‡ Five acres, extension of pine plantations in Madura, omitted from the district return.

Artificial reproduction, 1909–1910—*cont.*

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1909.	Added during the year.	Excluded during the year.	Area on 30th June 1910.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.										
B.—Taungya	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
South Canara	..	181	..	181	46	..	46	..	..	..
Malabar, North	56	..	..	56	..	13	..	10,509	1,250	3,790
Tinnevelly	15	..	..	15	..	..	..	..	..	..
Total	71	181	..	252	46	13	46	10,509	1,250	3,790
Total, Taungya Plantations, Presidency.	2,227	181	..	2,408	93	765	1,872	13,054	2,794	4,724
NORTHERN CIRCLE.										
C.—Cultural Operations.										
Ganjám	..	20	..	20	69	..	69	..	..	..
Vizagapatam	..	..	..	..	13	5	182	9	..	..
Gódávari, Upper	(*c*) 825	4	..	829	976	183	2,044	183	145	145
Do. Lower	1,528	244	..	1,772	414	162	1,728	780	..	..
Kistna	1,052	440	100	1,392	225	182	1,761	1,359	8,568	11,739
Kurnool, East (*a*)	217	..	..	217	2,231	..	10,192	187	..	..
Do. West	323	307	..	630	206	..	420	..	..	..
Bellary	6,832	3,287	500	9,619	26,062	..	44,753	..	..	..
Anantapur	(*b*)47,010	4,596	.	51,606	3,950	..	16,971	..	..	274
Total	57,787	8,898	600	66,085	34,146	532	78,120	2,518	8,713	12,158
CENTRAL CIRCLE.										
C.—Cultural Operations.										
Cuddapah North	..	112	..	112	36	112	36	112	..	..
Do. East	82	50	44	88	46	163	132	..	..	..
Do. South	..	..	..	..	114	..	114	121	..	..
Nellore	305	140	..	445	298	..	1,605	..	..	..
Chingleput	6,224	1,206	..	7,430	660	532	1,720	3,032	..	..
Arcot, North	1,151	..	..	1,151	50	62	174	359	..	..
Do. South	1,102	192	..	1,294	134	..	414	487	..	..
Salem, North	..	..	..	..	470	4	4,025	81	..	15
Do. South	(*d*) 16	200	..	216	103	134	587	631	40	61
Trichinopoly	291	25	..	316	63	1,336	63	3,517	2,495	Not known.
Tanjore	1,256	32	..	1,288	65	..	Not known.			..
Guntúr	1	..	..	1	..	..	30	..	..	..
Total	10 428	1,957	44	12,341	2,039	2,343	8,900	8,340	2,535	76
SOUTHERN CIRCLE.										
C.—Cultural Operations.										
South Canara	2	..	..	2	..	83	199	114	..	..
Malabar, North	139	..	..	139	..	1,197	..	6,210	..	..
Do. South	162	25	..	187	266	246	1,875	633	..	..
The Nilgiris	488	5	..	493	162	1,864	162	28,935	..	..
* Coimbatore, North	† 5,648	5,187	..	10,835	..	..	..	.	..	..
Do. Central	94	13	..	107	14	..	544	89	..	37
Do. South	106	367	..	473	142	25	1,687	376	..	..
Madura	690	58	..	748	247	..	2,244	470	..	..
Tinnevelly	1,319	502	..	1,821	609	..	2,827	71	..	..
Total	8,648	6,157	..	14,805	1,440	3,415	9,538	36,928	..	37
Total, Cultural Operations, Presidency.	76,863	17,012	644	93,231	37,625	6,290	96,558	47,786	11,248	12,271
Grand Total, Regular Plantations, Taungya and Cultural Operations.	105,681	18,688	1,330	1,23,039	1,27,419	66,681	11,28,186	11,59,281	2,52,631	25,17,818

(*a*) These are as per revised return submitted to Board with Collector's No. R. Dis. 2/F.E., dated 8th January 1910.
(*b*) This is as per revised return of the Collector sent in reply to an objection that for a series of years expenditure was being shown and not the area corresponding to it.
(*c*) Correct figures as reported by the Collector.
(*d*) Difference due to revision of area for Mallapuram bungalow compound.
* Dibbling seeds in coupes done by subordinates free of cost.
† Omitted from last year's return and added to opening balance by Collector.

ANNUAL FORM No. 76.

Forest Department, Madras Presidency.

OUTTURN (in cubic feet solid) of Timber and Fuel and of Bamboos (in number) during the year 1909–1910, and Agency of Exploitation.

ANNUAL.

Forest Department,

OUTTURN (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
NORTHERN CIRCLE.							
Ganjám.							
Reserved forests—							
Sâl	60,432	35	..	..	60,467	..	..
Miscellaneous	7,625	154	35,783	..	43,562	..	..
Total ..	* 68,057	189	35,783	..	104,029	203,570	6,951
Unreserved lands—							
Sâl	3,381	4,812	..	..	8,193	..	..
Miscellaneous	1,675	120,439	8,070	..	130,184	..	..
Total ..	5,056	125,251	8,070	..	138,377	68,574	40,647
Total, Ganjám ..	73,113	125,440	43,853	..	242,406	272,144	47,598
Vizagapatam.							
Reserved forests—							
Miscellaneous	6,924	1,870	340	..	9,134	209,415	8,350
Unreserved lands—							
Yegisi	1,047	..	..	..	1,047	..	..
Maddi	758	..	..	..	758	..	..
Miscellaneous	784	27,644	2,510	..	30,938	..	..
Total ..	2,589	27,644	2,510	..	32,743	..	60,822
Total, Vizagapatam ..	9,513	29,514	2,850	..	41,877	209,415	69,172
Upper Gódávari.							
Reserved forests—							
Teak	..	4,382	..	..	4,382	..	..
Maddi	479	..	..	..	479	..	..
Miscellaneous	4,645	..	..	..	4,645	..	..
Total ..	5,124	4,382	..	..	9,506	..	..
Unreserved lands—							
Teak	12,888	18,045	..	..	30,933	..	..
Yegisi	278	16,308	8	..	16,594	..	..
Maddi	411	34,334	1,357	..	36,102	..	..
Miscellaneous	8,686	33,305	9,939	..	51,930	..	..
Total ..	22,263	101,992	11,304	..	135,559	157,059	20,298
Total, Upper Gódávari ..	27,387	106,374	11,304	..	145,065	157,059	20,298
Lower Gódávari.							
Reserved forests—							
Teak	123	..	..	..	123	..	..
Yegisi	660	..	..	..	660	..	..
Maddi	66	..	..	..	66	..	..
Miscellaneous	10,928	..	..	..	10,928	..	..
Total ..	11,777	..	..	..	11,777	680,757	..
Unreserved lands—							
Teak	25	..	..	..	25	..	..
Yegisi	92	26,093	..	..	26,185	..	..
Maddi	15	18,065	..	..	18,080	..	..
Miscellaneous	4,361	214,384	1,180	..	219,925	..	..
Total ..	4,493	258,542	1,180	..	264,215	..	201,593
Total, Lower Gódávari ..	16,270	258,542	1,180	..	275,992	680,757	201,593

* Excludes 3,093 c. ft. of timber removed by departmental agency.

FORM No. 76.

Madras Presidency.

(in number) during the year 1909–1910, and Agency of Exploitation.

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	210,521	314,550	† 895,823	‡ 2,344	58,317	..	956,484
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	109,221	247,598	..	15,118	1,120	..	16,238
..	..	319,742	562,148	895,823	17,462	59,437	..	972,722
..	..	217,765	226,899	871,519	444,700	11,280	..	1,327,499
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	60,822	93,565	..	7,710	..	..	7,710
..	..	278,587	320,464	871,519	452,410	11,280	..	1,335,209
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	9,506	13,244	651,100	..	..	664,344
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	177,357	312,916	2,500	86,300	1,350	..	90,150
..	..	177,357	322,422	15,744	737,400	1,350	..	754,494
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	680,757	692,534	10,424	1,231,600	..	..	1,242,024
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	201,593	465,808	5,650	7,924,520	..	..	7,930,170
..	..	882,350	1,158,342	16,074	9,156,120	..	..	9,172,194

† Excludes 2,000 bamboos removed by departmental agency.

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Kistna.							
Reserved forests—							
Miscellaneous	3,505	12,752	..	..	16,257	798,087	198,302
Unreserved lands—							
Miscellaneous	1,463	73,776	160	..	75,399	15,306	400,848
Total, Kistna ..	4,968	86,528	160	..	91,656	813,393	599,150
Kurnool, East.							
Reserved forests—							
Teak	2,163	..	..	..	2,163	..	..
Yegisi	3,113	..	..	..	3,113	..	..
Maddi	2,146	..	..	..	2,146	..	..
Miscellaneous	8,358	512	3,486	..	12,356	..	..
Total ..	15,780	512	3,486	..	19,778	596,428	13,362
Unreserved lands—							
Miscellaneous	..	71	480	..	551	..	..
Total, Kurnool, East ..	15,780	583	3,966	..	20,329	596,428	13,362
Kurnool, West.							
Reserved forests—							
Teak	10,248	..	..	..	10,248	..	..
Yegisi	21,519	..	..	..	21,519	..	..
Maddi	4,127	..	..	..	4,127	..	..
Miscellaneous	72,502	10,220	5,420	787	88,929	..	..
Total ..	108,396	10,220	5,420	787	124,823	1,151,182	..
Unreserved lands—							
Miscellaneous	..	11,024	..	..	11,024	..	134,334
Total, Kurnool, West ..	108,396	21,244	5,420	787	135,847	1,151,182	134,334
Bellary.							
Reserved forests—							
Miscellaneous	3,715	..	..	..	3,715	115,169	..
Reserved lands including leased forests—							
Teak	177	..	..	..	177	127,865	..
Unreserved lands—							
Miscellaneous	3,725	90,871	8,458	..	103,054	69,813	118,317
Total, Bellary ..	7,617	90,871	8,458	..	106,946	312,847	118,317
Anantapur.							
Reserved forests—							
Miscellaneous	588	513	..	..	1,101	15,000	3,000
Unreserved lands—							
Miscellaneous	18,000	39,000	406	..	57,406	21,360	54,000
Total, Anantapur ..	18,588	39,513	406	..	58,507	36,360	57,000

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	996,389	1,012,646	13,800	144,300	..	..	158,100
..	..	416,154	491,553	..	..	..	..	..
..	..	1,412,543	1,504,199	13,800	144,300	..	..	158,100
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	609,790	629,568	721,176	..	975	..	722,151
..	..	..	551	..	..	..	..	..
..	..	609,790	630,119	721,176	..	975	..	722,151
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	1,305,688	1,430,511	3,246,131	41	20,325	12,293	3,278,790
..	..	134,334	145,358	..	..	..	..	..
..	154,506	1,440,022	1,575,869	3,246,131	41	20,325	12,293	3,278,790
..	..	115,169	118,884	..	..	..	..	..
..	..	127,865	128,042	23,252	..	..	..	23,252
..	..	188,130	291,184	..	509	..	..	509
..	..	431,164	538,110	23,252	509	..	..	23,761
..	..	18,000	19,101	19,167	..	..	..	19,167
..	..	75,360	132,766	..	..	..	..	..
..	..	93,360	151,867	19,167	..	..	..	19,167

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
CENTRAL CIRCLE.	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
North Cuddapah.							
Reserved forests—							
Miscellaneous	20,846	20,360	2,956	..	44,162	693,496	334,165
East Cuddapah.							
Reserved forests—							
Miscellaneous	16,173	..	540	..	16,713	764,056	..
Unreserved lands—							
Miscellaneous	..	8,668	..	..	8,668	..	38,806
Total, East Cuddapah ..	16,173	8,668	540	.	25,381	764,056	38,806
South Cuddapah.							
Reserved forests—							
Miscellaneous	2,071	5,029	..	..	7,100	44,920	1,816
Unreserves—							
Miscellaneous	..	31,821	104	..	31,925	..	50,327
Total, South Cuddapah ..	2,071	36,850	104	..	39,025	44,920	52,143
Nellore.							
Reserved forests—							
Miscellaneous	6,204	5,630	..	..	11,834	720,263	381,150
Unreserved lands—							
Miscellaneous	..	83,740	3,154	..	86,894	..	31,989
Total, Nellore	6,204	89,370	3,154	..	98,728	720,263	413,139
Chingleput.							
Reserved forests—							
Miscellaneous	1,688	53	1,307	..	3,048	158,653	1,873
Unreserves—							
Miscellaneous	263	81,624	1,560	..	83,447	* 320	58,566
Total, Chingleput ..	1,951	81,677	2,867	..	86,495	158,973	60,439
North Arcot.							
Reserved forests—							
Red sanders	2,971						
Sandalwood	2,230	..	..	..	..	..	..
Miscellaneous	† 6,979						
Total ..	12,180	21,107	2,238	..	35,525	1,283,302	138,270
Unreserved lands—							
Miscellaneous	..	203,567	5,480	..	209,047	..	165,776
Total, North Arcot ..	12,180	224,674	7,718	..	244,572	1,283,302	304,146
South Arcot.							
Reserved forests—							
Sandalwood	4,049						
Miscellaneous	458	..	..	..	..	..	..
Total ..	4,507	4,184	..	..	8,691	815,787	128,653
Unreserved lands—							
Miscellaneous	..	45,952	3,134	.	49,086	..	166,193
Total, South Arcot ..	4,507	50,136	3,134	..	57,777	815,787	294,846
North Salem.							
Reserved forests—							
Sandalwood	1,369						
Miscellaneous	7,964	..	..	..	..	..	..
Total ..	9,333	..	..	..	9,333	345,978	612

* This excludes 260 casuarina trees for which cubic feet were not furnished by the Collector.
† Includes 3,234 cubic feet of agricultural implements.

(in number) during the year 1909-1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	1,027,661	1,071,823	48,920	199,564	8,900	..	257,384
..	..	764,056	780,769	320	942,670	1,900	..	944,890
..	..	38,806	47,474	..	..	..	..	..
..	..	802,862	828,243	320	942,670	1,900	..	944,890
..	..	46,736	53,836	70,160	35,700	..	..	105,860
..	..	50,327	82,252	..	..	7,200	..	7,200
..	..	97,063	136,088	70,160	35,700	7,200	..	113,060
20	..	1,101,433	1,113,267	4,020	..	..	..	4,020
..	..	31,989	118,883	..	8,280	..	..	8,280
20	..	1,133,422	1,232,150	4,020	8,280	..	..	12,300
..	..	160,526	163,574	..	..	40	..	40
..	..	58,886	142,333	..	9,000	120	..	9,120
..	..	219,412	305,907	..	9,000	160	..	9,160
..	..	..	..	..	..	..	..	..
..	..	1,421,672	1,457,197	78,098	4,437,780	6,560	..	4,522,438
..	..	165,776	374,823	..	..	..	..	..
..	..	1,587,448	1,832,020	78,098	4,437,780	6,560	..	4,522,438
..	..	..	..	..	..	..	..	..
400	..	944,840	953,531	2,028	2,115,680	..	..	2,117,708
247	..	166,440	215,526	..	563	..	..	563
647	..	1,111,280	1,169,057	2,028	2,116,243	..	..	2,118,271
..	..	..	..	..	..	..	..	..
..	..	346,590	355,923	110,682	5,983,418	..	..	6,094,100

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
CENTRAL CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
North Salem—cont.							
Unreserves—							
Sandalwood	137	..	..	..	..	..	..
Miscellaneous	3,159						
Total ..	3,296	114,781	385	..	118,462	96,322	91,562
Total, North Salem ..	12,629	114,781	385	..	127,795	442,300	92,174
South Salem.							
Reserved forests—							
Sandalwood	45	..	..	..	..	..	..
Miscellaneous	4,318						
Total ..	4,363	..	..	..	4,363	181,592	43,860
Unreserves—							
Sandalwood	226	..	..	..	..	..	..
Miscellaneous	735						
Total ..	961	122,797	7,552	..	131,310	9,043	160,135
Total, South Salem ..	5,324	122,797	7,552	..	135,673	190,635	203,995
Trichinopoly.							
Reserved forests—							
Miscellaneous	..	..	520	..	520	322,353	764,520
Unreserves—							
Miscellaneous	..	223,401	3,099	..	226,500	255,707	412,344
Total, Trichinopoly ..	..	223,401	3,619	..	227,020	578,060	1,176,864
Tanjore.							
Reserved forests—							
Miscellaneous	..	..	..	..	..	66,328	6,525
Unreserves—							
Miscellaneous	..	..	..	..	..	9,712	122,125
Total, Tanjore ..	..	..	..	..	..	76,040	128,650
Guntúr.							
Reserved forests—							
Miscellaneous	146,108	450	460	..	147,018	934,634	..
Unreserved lands—							
Miscellaneous	231	297,523	25,860	..	323,614	35,077	7,416
Total, Guntúr ..	146,339	297,973	26,320	..	470,632	969,761	7,416
SOUTHERN CIRCLE.							
South Canara.							
Reserved forests—							
Teak	41	..	..	..	41	..	..
Rosewood	22	..	..	..	22	..	..
Pterocarpus Marsupium ..	174	..	..	..	174	..	..
Xylia dolabriformis	1,433	..	..	..	1,433	..	..
Hopea parviflora	4	..	..	..	4	..	..
Miscellaneous	7,051	59,778	..	..	66,829	..	..
Total ..	8,725	59,778	..	..	68,503	207,605	301,497
Unreserved lands—							
Teak	..	300	75	1,550	1,925	..	..
Sandalwood	..	46	..	..	46	..	..
Rosewood	..	200	..	350	550	..	..
Pterocarpus Marsupium ..	..	25	..	375	400	..	..
Xylia dolabriformis	..	25	225	1,975	2,225	..	..
Hopea parviflora	..	2,175	3,450	63,875	69,500	..	..
Miscellaneous	..	18,764	2,409	24,200	45,373	..	..
Total ..	..	21,535	6,159	92,325	120,019	..	430,717
Total, South Canara ..	8,725	81,313	6,159	92,325	188,522	207,605	732,214

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	187,884	306,346	11,461	250,720	3,250	..	265,431
..	..	534,474	662,269	122,143	6,234,138	3,250	..	6,359,531
..	..	..	..	..	..	..	..	..
..	..	225,452	229,815	..	3,207,480	..	..	3,207,480
..	..	..	..	..	..	..	..	..
..	..	169,178	300,488	..	172,220	..	..	172,220
..	..	394,630	530,303	..	3,379,700	..	..	3,379,700
..	..	1,086,873	1,087,393	95,441	50,970	..	..	146,411
..	..	668,051	894,551	..	479	..	..	479
..	..	1,754,924	1,981,944	95,441	51,449	..	..	146,890
..	..	72,853	72,853	..	..	..	..	..
..	..	131,837	131,837	..	3,524	..	..	3,524
..	..	204,690	204,690	..	3,524	..	..	3,524
..	..	934,684	1,081,702	..	..	..	..	..
..	..	42,493	366,107	..	..	..	..	..
..	..	977,177	1,447,809	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	509,102	577,605	8,604	35,056	..	..	43,660
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	430,717	550,736	..	40,475	2,000	..	42,475
..	..	939,819	1,128,341	8,604	75,531	2,000	..	86,135

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Malabar, North.							
Reserved forests—							
Teak	9,719	12,623	..	..	22,342	..	..
Rosewood	559	4,757	..	..	5,316	..	..
Pterocarpus Marsupium ..	2,145	5,355	..	..	7,500	..	..
Lagerstroemia microcarpa ..	281	2,179	..	..	2,460	..	..
Terminalia tomentosa	1,695	7,690	..	..	9,385	..	..
Miscellaneous	1,182	356	..	..	1,538	..	..
Total ..	15,581	32,960	..	..	48,541	12,344	360
Unreserved lands—							
Teak	..	..	142	..	142	..	..
Total, Malabar, North ..	15,581	32,960	142	..	48,683	12,344	360
Malabar, South.							
Reserved forests—							
Teak	11,015	3,250	..	..	14,265	..	..
Rosewood	1,439	104	..	..	1,543	..	..
Pterocarpus Marsupium ..	427	..	..	..	427	..	..
Xylia dolabriformis	721	2,925	..	..	3,646	..	..
Terminalia tomentosa	7,586	1,950	..	..	9,536	..	..
Miscellaneous	6,363	28,405	10	..	34,778	..	..
Total ..	27,551	36,634	10	..	64,195	..	220
Reserved lands—							
Teak	28,330	..	..	..	28,330	..	..
Xylia dolabriformis	287	..	..	..	287	..	..
Miscellaneous	1,309	..	..	..	1,309	..	..
Total ..	29,926	..	..	..	29,926	1,248	..
Unreserved lands—							
Teak	20	..	..	..	20	..	..
Xylia dolabriformis	4	..	..	..	4	..	..
Miscellaneous	44	20	..	..	64	..	..
Total ..	68	20	..	..	88	300	..
Total, Malabar, South ..	57,545	36,654	10	..	94,209	1,548	220
The Nilgiris.							
Reserved forests—							
Teak	20,308	193	..	..	20,501	..	..
Rosewood	258	80	..	..	338	..	..
Pterocarpus Marsupium ..	2,237	728	..	..	2,965	..	..
Lagerstroemia microcarpa ..	245	..	..	..	245	..	..
Sandalwood	348	..	..	..	348	..	..
Miscellaneous	1,153	589	20	310	2,072	..	..
Total, The Nilgiris ..	24,549	1,590	20	310	26,469	170,511	13,556
Kollegal.							
Reserved forests—							
Teak	96	..	..	..	96	..	..
Pterocarpus Marsupium ..	68	..	..	..	68	..	..
Rosewood	236	..	..	..	236	..	..
Sandalwood	2,205	..	..	..	2,205	..	..
Miscellaneous	2,068	307	..	..	2,375	..	..
Total ..	4,673	307	..	..	4,980	214,565	1,637
Reserved lands—							
Sandalwood	232	..	..	..	232	..	..
Miscellaneous	..	343	..	..	343	..	..
Total ..	232	343	..	..	575	..	131
Total, Kollegal ..	4,905	650	..	..	5,555	214,565	1,768
Coimbatore, North.							
Reserved forests—							
Sandalwood	4,001	..	..	..	4,001	..	..
Miscellaneous	5,247	105	60	..	5,412	..	..
Total ..	9,248	105	60	..	9,413	445,582	8,403

(in number) during the year 1909-1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	12,704	61,245	3,475	15,651	..	..	19,126
..	..	..	142	..	..	..	..	..
..	..	12,704	61,387	3,475	15,651	..	..	19,126
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	220	64,415	310	17,500	..	..	17,810
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,248	31,174	31,052	7,300	..	..	38,352
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	300	388	..	..	..	..	..
..	..	1,768	95,977	31,362	24,800	..	..	56,162
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,640	106	185,813	212,282	..	182,945	..	2,775	185,720
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	216,202	221,182	54,467	107,683	..	..	162,150
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	131	706	25	206	..	..	231
..	..	216,333	221,888	54,492	107,889	..	..	162,381
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	453,985	463,398	1,925	3,244,385	400	..	3,246,710

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE—*cont.*							
Coimbatore, North—cont.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Reserved lands—							
Miscellaneous	529	..	..	..	529	103,650	335
Unreserved lands—							
Miscellaneous	..	..	1,140	..	1,140	..	..
Total, Coimbatore, North ..	9,777	105	1,200	..	11,082	549,232	8,738
Coimbatore, Central.							
Reserved forests—							
Teak	2,388	..	..	..	2,388	..	..
Sandalwood	12	..	..	..	12	..	..
Terminalia Tomentosa	7	..	..	..	7	..	..
Miscellaneous	5,853	6,792	..	..	12,645	..	..
Total ..	8,260	6,792	..	..	15,052	353,466	490,996
Reserved lands—							
Miscellaneous	13,031	..	..	..	13,031	..	..
Unreserved lands—							
Miscellaneous	..	75,551	1,488	..	77,039	..	190,805
Total, Coimbatore, Central ..	21,291	82,343	1,488	..	105,122	353,466	681,801
Coimbatore, South.							
Reserved forests—							
Teak	51,100	..	..	..	51,100	..	..
Xylia dolabriformis ..	73	..	..	..	73	..	..
Pterocarpus Marsupium ..	1,905	..	..	..	1,905	..	..
Rosewood	2,522	..	..	..	2,522	..	..
Lagerstroemia Microcarpa ..	2,948	..	..	..	2,948	..	..
Terminalia Tomentosa	183,245	..	..	..	183,245	..	..
Miscellaneous	18,892	..	..	..	18,892	..	..
Total, Coimbatore, South ..	260,685	..	..	..	260,685	267,298	144
Madura.							
Reserved forests—							
Teak	69	..	..	..	69	..	..
Pterocarpus Marsupium ..	152	..	..	..	152	..	..
Rosewood	28	..	..	..	28	..	..
Miscellaneous	2,554	75,547	40	..	78,141	..	..
Total ..	2,803	75,547	40	..	78,390	1,013,439	325,430
Unreserved lands—							
Miscellaneous	..	86,980	3,350	..	90,330	193,191	496,748
Total, Madura ..	2,803	162,527	3,390	..	168,720	1,206,630	822,178
Tinnevelly.							
Reserved forests—							
Miscellaneous	1,447	28,162	..	..	29,609	252	581,640
Unreserved lands—							
Miscellaneous	..	30,673	1,614	..	32,287	3,053	154,966
Total, Tinnevelly ..	1,447	58,835	1,614	..	61,896	3,305	736,606
NORTHERN CIRCLE.							ABS
Reserved forests—							
Sal	60,432	35	..	..	60,467	..	..
Teak	12,584	4,332	..	..	16,916	..	..
Yegisi	25,292	..	..	..	25,292	..	.
Maddi	6,818	..	..	..	6,818	..	..
Miscellaneous	118,790	26,021	45,029	787	190,627	..	..
Total ..	223,866	30,438	45,029	787	300,120	2,769,608	229,965

(in number) during the year 1909-1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	103,985	104,514	..	..	..	..	..
..	..	..	1,140	..	..	..	..	..
..	..	557,970	569,052	1,925	3,244,385	400	..	3,246,710
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	844,462	859,514	684	879,095	..	..	879,779
..	..	..	13,031	..	..	..	..	..
..	..	190,805	267,844	..	..	..	..	..
..	..	1,035,267	1,140,389	684	879,095	..	..	879,779
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	267,442	528,127	5,268	301,662	..	..	306,930
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,338,869	1,417,259	..	146,266	..	..	146,266
1,325	..	691,264	781,594	..	..	..	..	..
1,325	..	2,030,133	2,198,853	..	146,266	..	..	146,266
..	..	581,892	611,501	..	* 4,415	..	..	4,415
680	..	158,699	190,986	..	82	..	..	82
680	..	740,591	802,487	..	4,497	..	..	4,497
TRACT.								
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	4,154,079	4,454,199	5,791,284	2,474,085	90,897	12,293	8,368,559

* Excludes 41 tons of Ethacally.

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
							ABS
Reserved lands including leased forests—							
Teak	177	..	..	..	177	127,865	..
Unreserved lands—							
Sal	3,381	4,812	..	..	8,193	..	..
Teak	12,913	18,045	..	..	30,958	..	..
Yegisi	1,417	42,401	8	..	43,826	..	..
Maddi	1,184	52,399	1,357	..	54,940	..	..
Miscellaneous	38,694	610,514	31,203	..	680,411	..	..
Total ..	57,589	728,171	32,568	..	818,328	332,112	1,030,859
Reserved forests, Reserved lands and Unreserved lands—							
Sal (*Shorea robusta*)	63,813	4,847	..	..	68,660	..	..
Teak (*Tectona grandis*) ..	25,624	22,427	..	..	48,051	..	..
Yegisi (*Pterocarpus marsupium*)	26,709	42,401	8	..	69,118	..	..
Maddi (*Terminalia tomentosa*).	8,002	52,399	1,357	..	61,758	..	..
Miscellaneous	157,484	636,535	76,232	787	871,038	..	..
Grand Total ..	281,632	758,609	77,597	787	1,118,625	4,229,585	1,260,824
CENTRAL CIRCLE.							
Reserved forests—							
Red sanders	2,971						
Sandalwood	7,693	..	..	..	..	..	..
Miscellaneous	212,809						
Total ..	223,473	56,813	8,021	..	288,307	6,331,412	1,801,544
Unreserves—							
Sandalwood	363						
Miscellaneous	4,388	..	..	..	.	..	..
Total ..	4,751	1,213,874	50,328	..	1,268,953	406,181	1,305,239
Grand Total for the Circle—							
Red sanders	2,971						
Sandalwood	8,056	..	..	..	..	..	..
Miscellaneous	217,197						
Total ..	228,224	1,270,687	58,349	..	1,557,260	6,737,593	3,106,783
SOUTHERN CIRCLE.							
Reserved forests—							
Teak	94,736	16,066	..	..	110,802	..	..
Pterocarpus Marsupium ..	7,108	6,083	..	..	13,191	..	..
Rosewood	5,064	4,941	..	..	10,005	..	..
Sandalwood	6,566	..	..	..	6,566	..	..
Lagerstroemia microcarpa ..	3,474	2,179	..	..	5,653	..	..
Xylia dolabriformis	2,227	2,925	..	..	5,152	..	..
Hopea parviflora	4	.	..	..	4	..	..
Terminalia tomentosa	192,533	9,640	..	..	202,173	..	..
Miscellaneous	51,810	200,041	130	310	252,291	..	..
Total ..	363,522	241,875	130	310	605,837	2,685,062	1,723,883
Reserved lands—							
Teak	28,330	..	..	..	28,330	..	..
Xylia dolabriformis	287	..	..	..	287	..	..
Sandalwood	232	..	..	..	232	..	..
Miscellaneous	14,869	343	..	..	15,212	..	..
Total ..	43,718	343	..	..	44,061	104,898	466

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
TRACT—*cont.*								
..	..	127,865	128,042	23,252	..	..	..	23,252
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..		..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,362,971	2,181,299	8,150	8,034,157	2,470	..	8,044,777
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	5,644,915	6,763,540	5,822,686	10,508,242	93,367	12,293	16,436,588
..	..	..	..	..	..	..	..	..
420	..	8,183,376	8,421,683	409,669	16,973,262	17,400	..	17,400,331
..	..	..	..	..	..	..	..	..
247	..	1,711,667	2,980,620	11,461	444,786	10,570	..	466,817
..	..	..	..	..	..	..	..	..
667	..	9,845,043	11,402,303	421,130	17,418,048	27,970	..	17,867,148
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,640	106	4,410,691	5,016,528	74,733	4,934,658	400	2,775	5,012,566
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	105,364	149,425	31,077	7,506	..	..	38,583

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
							ABS
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Unreserved lands—							
Teak	20	300	217	1,550	2,087	..	..
Sandalwood	..	46	..	..	46	..	..
Rosewood	..	200	..	350	550	..	..
Pterocarpus Marsupium	..	25	..	375	400	..	..
Xylia dolabriformis	4	25	225	1,975	2,229	..	..
Hopea parviflora	..	2,175	3,450	63,875	69,500	..	..
Miscellaneous	44	211,988	10,001	24,200	246,233	..	..
Total	68	214,759	13,893	92,325	321,045	196,544	1,273,236
Reserved forests, reserved lands and unreserved lands—							
Teak	123,086	16,366	217	1,550	141,219	..	..
Pterocarpus Marsupium	7,108	6,108	..	375	13,591	..	..
Rosewood	5,064	5,141	..	350	10,555	..	..
Sandalwood	6,798	46	..	..	6,844	..	..
Lagerstræmia microcarpa	3,474	2,179	..	..	5,653	..	..
Xylia dolabriformis	2,518	2,950	225	1,975	7,668	..	..
Hopea parviflora	4	2,175	3,450	63,875	69,504	..	..
Terminalia tomentosa	192,533	9,640	..	..	202,173	..	..
Miscellaneous	66,723	412,372	10,131	24,510	513,736	..	..
Grand Total	407,308	456,977	14,023	92,635	970,943	2,986,504	2,997,585
							PRESIDENCY
Reserved forests—							
Sal	60,432	35	..	..	60,467	..	..
Teak	107,270	20,448	..	..	127,718	..	..
Redsanders	35,371	6,083	..	..	41,454	..	..
Venteak	3,474	2,179	..	..	5,653	..	..
Sandalwood	14,259		..	..	14,259	..	..
Maddi	199,351	9,640	..	..	208,991	..	..
Ironwood	2,227	2,925	..	..	5,152	..	..
Rosewood	5,064	4,941	..	..	10,005	..	..
Irumbogum	4	..	..	..	4	.	..
Miscellaneous	383,409	226,062 * 56,813	45,159 * 8,021	1,097 ..	655,727 64,834	..	..
Total, Reserved forests	810,861	329,126	53,180	1,097	1,194,264	12,786,082	3,755,392
Reserved lands—							
Teak	28,507	..	..	..	28,507	..	..
Sandalwood	232	..	..	..	232	..	..
Ironwood	287	..	..	..	287	..	..
Miscellaneous	14,869	343	..	..	15,212	..	..
Total, Reserved lands	43,895	343	..	..	44,238	232,763	466
Unreserved lands—							
Sal	3,381	4,812	..	..	8,193	..	..
Teak	12,933	18,345	217	1,550	33,045	..	..
Maddi	1,184	52,399	1,357	..	54,940	..	..
Redsanders	1,417	42,426	8	375	44,226	..	..
Sandalwood	363	46	..	..	409	..	..
Rosewood	..	200	..	350	550	..	..
Ironwood	4	25	225	1,975	2,229	..	..
Irumbogum	..	2,175	3,450	63,875	69,500	..	..
Miscellaneous	43,126	822,502 *1,213,874	41,204 * 50,328	24,200 ..	931,032 1,264,202	..	..
Total, Unreserved lands	62,408	2,156,804	96,789	92,325	2,408,326	934,837	3,609,334
Reserved forests, Reserved lands and Unreserved lands—							
Sal	63,813	4,847	..	..	68,660	..	..
Teak	148,710	38,793	217	1,550	189,270	..	..
Redsanders	36,788	48,509	8	375	85,680	..	..
Venteak	3,474	2,179	..	..	5,653	..	..
Sandalwood	14,854	46	..	..	14,900	..	..
Maddi	200,535	62,039	1,357	..	263,931	..	..
Ironwood	2,518	2,950	225	1,975	7,668	..	..
Rosewood	5,064	5,141	..	350	10,555	..	..
Irumbogum	4	2,175	3,450	63,875	69,504	..	..
Miscellaneous	441,404	2,319,594	144,712	25,297	2,931,007	..	..
Grand Total, Presidency, Reserved forests, Reserved lands and Unreserved lands.	917,164	2,486,273	149,969	93,422	3,646,828	13,953,682	7,365,192

* These figures are entered in columns 3 and 4 of the Central Circle statement and are not classified.

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
TRACT—*cont.*								
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,005	..	1,471,785	1,792,830	..	40,557	2,000	..	42,557
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
3,645	106	5,987,840	6,958,783	105,810	4,982,721	2,400	2,775	5,093,706
ABSTRACT.								
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,060	154,612	16,698,146	17,892,410	6,275,686	24,382,005	108,697	15,068	30,781,456
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	233,229	277,467	54,329	7,506	..	..	61,835
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,252	..	4,546,423	6,954,749	19,611	8,519,500	15,040	..	8,554,151
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
4,312	154,612	21,477,798	25,124,626	6,349,626	32,909,011	125,737	15,068	39,397,442

ANNUAL FORM No. 77.

Forest Department, Madras Presidency.

OUTTURN of Minor Produce during the year 1909–1910.

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grants.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
		MDS.	RS.	RS.	RS.	RS.	RS.
Northern Circle.	Grazing and fodder grass ..	92,163	2,090	2,08,168	86	904	2,11,248
	Grass (thatch, korai, tharbi, etc.).	8,177	690	534	246	..	1,470
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	65	16	51,349	..	..	51,365
	Horns, honey, wax, resin, gum, skins, etc.	..	..	1,234	..	..	1,234
	Tangedu, vembadam, etc., barks and fibres.	1,772	1	1,39,604	..	..	1,39,605
	Plumbago, stone, gravel, earth, etc.	..	..	3,981	..	..	3,981
	Leaves for platters	..	..	329	..	..	329
	Manure leaves	..	..	360	..	..	360
	Date and palmyra leaves, stalks, etc.	..	..	1,134	17	..	1,151
	Miscellaneous (including tree-owner's fees).	297,206	10,740	1,21,871	..	23,570	1,56,181
	Total ..	399,383	13,537	5,28,564	349	24,474	5,66,924
Central Circle.	Grazing and fodder grass including hay.	22,894	3,001	4,24,688	45	541	4,28,275
	Grass (thatch and korai, etc.) ..	2,554	29	700	59	200	988
	Tamarind, soapnuts, gallnuts ..	6,679	4,069	19,683	..	..	23,752
	Horns, honey, wax, gum, etc.	461	1,851	3,847	..	..	5,698
	Tangedu, vembadam, etc., barks and fibres.	37	200	66,929	..	..	67,129
	Mica stone, gravel, earth, etc...	..	..	45,296	..	..	45,296
	Lac	..	..	60	..	..	60
	Manure, leaves, thorns, etc. ..	..	..	42,674	1	..	42,675
	Date, palmyra leaves, etc. ..	3,810	56	8,006	796	..	8,858
	Miscellaneous including tree-tapping and tree-owners' fees.	49,680	9,313	1,83,878	..	..	1,93,191
	Total ..	86,115	18,519	7,95,761	901	741	8,15,922
	Reserved forests, reserved and unreserved lands.	QRS.					
Southern Circle.	Grass and grazing	15,923	3,147	1,36,762	4	..	..
	Grass (thatch, korai, etc.) ..	..	..	12,238	34	31	..
	Dammer, turmeric, pepper, cardamoms, etc.	..	..	8,588	..	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	15,420	13,446	2,305	..	..	..
	Horns, honey, wax, resin, gum, skin, etc.	548	6,912	2,107	..	..	..
	Avaram, vembadam, etc., barks and fibres.	..	..	2,824	..	..	..
	Stones, gravel and earth ..	..	..	10,798	782	..	..
	Manure leaves, thorns, etc. ..	..	..	830	..	..	..
	Date and palmyra leaves ..	..	..	831	..	..	..
	Miscellaneous	1,385	1,954	54,706	..	471	..
	Total ..	33,276	25,459	2,31,989	820	502	2,58,770
	Reserved lands.						
	Grazing	..	..	..	..	574	..
	Grass (thatch, korai, etc.) ..	..	..	26	..	..	..
	Avaram, vembadam, etc., barks and fibres.	..	..	1,073	..	..	..
	Stones, gravel and earth ..	..	..	170	..	..	..
	Manure leaves, thorns, etc. ..	..	..	16	..	..	..
	Date and palmyra leaves ..	..	..	240	..	..	..
	Miscellaneous	..	..	4,388	..	..	..
	Total ..	..	..	5,913	..	574	6,487

Outturn of Minor Forest Produce during the year 1909-1910—*cont.*

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grants.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
Southern Circle—*cont.*	*Unreserved lands.*	QRS.	RS.	RS.	RS.	RS.	RS.
	Grass (thatch, korai, etc.)	..	..	3,894	..	..	..
	Catechu	1,397	11,848	..	..	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	..	..	13,057	..	..	..
	Horns, honey, wax, resin, gum, skin, etc.	34	..	403	..	..	..
	Avaram, vambadam, etc., barks and fibres.	..	..	69	..	..	..
	Stone, gravel and earth ..	..	..	7,179	..	..	..
	Date and palmyra leaves ..	..	..	13	..	..	..
	Miscellaneous	..	..	8,072	..	5	..
	Total ..	1,431	11,848	32,687	..	5	44,540
	Grand tota ..	34,707	37,307	2,70,589	820	1,081	3,09,797
	Grand Total, Presidency	485,498 34,707 qrs.	69,363	15,94,914	2,070	26,296	16,92,643

ANNUAL FORM No. 78.

Forest Department, Madras Presidency.

ACCOUNT of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1909–1910.

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
TIMBER (CUBIC FEET).					
Northern Circle.					
Ganjám (e)	8,599	73,113	81,712	32,886	48,826
Vizagapatam	675	9,513	10,188	8,432	1,756
Gódávari, Upper	19,034	27,387	46,421	25,056	21,365
Do. Lower	700	16,270	16,970	14,412	2,558
Kistna	624	4,968	5,592	4,332	1,260
Kurnool, East	27,662	15,780	43,442	10,176	33,266
Do. West	34,581	108,396	142,977	116,230	26,747
Bellary	2,096	7,617	9,713	3,849	5,864
Anantapur	2,196	18,588	20,784	14,531	6,253
Total	96,167	281,632	377,799	229,904	* 147,895
Central Circle.					
Cuddapah, North	2,844	20,846	23,690	20,104	3,586
Do. East	3,318	16,173	19,491	14,984	4,507
Do. South	* 1,226	2,071	3,297	390	2,907
Nellore	6,559	6,204	12,763	(a) 8,349 (b) 3,639 (c) 3	772
Chingleput	911	1,951	2,862	2,598	264
Arcot, North	3,061	12,180	15,241	10,975 (b) 206 (c) 212	3,848
Do. South	4,201	4,507	8,708	4,003 (b) 604 (c) 193	3,908
Salem, North	4,399	12,629	17,028	12,116	4,912
Do. South	1,295	5,324	6,619	4,895	1,724
Trichinopoly	638	..	638	638	..
Tanjore	..	..	..	..	..
Guntúr	13,401	146,339	159,740	156,094	3,646
Total	41,853	228,224	270,077	240,003	30,074
Southern Circle.					
South Canara	36,127	8,725	44,852	14,107 (b) 677 (c) 5,656	24,412
Malabar, North	104,513	15,581	120,094	61,981 (b) 1,730 (c) 827	55,556
Do. South	136,630	57,545	194,175	116,773 (b) 578 (c) 6,635	70,189
The Nilgiris	36,236	24,549	60,785	40,141 (c) 20	20,624
Kollegal	1,461 (d) + 1	4,905	6,367	3,376	2,991
Coimbatore, North	4,548 (d) 4,306	9,777	18,631	14,282	4,349
Do. Central	2	21,291	21,293	6,797	14,496
Do. South	68,991	260 685	329,676	155,777	173,899
Madura	1,440	2,803	4.243	3,270	973
Tinnevelly	82	1,447	1,529	1,529	..
Total	394,337	407,308	801,645	434,156	367,489
Grand Total, Presidency	532,357	917,164	1,449,521	904,063	545,458

* Revised figure furnished by the Collector.

(a) Sold locally. (b) Used departmentally. (c) Written off.

(d) Added to openining balance by the Collector, sandalwood remaining with Pierce Leslie & Co. was wrongly excluded from the last year's return.

(e) Excludes 3,093 c. ft. of timber cut by Government agency and disposed of during the year.

Account of timber and other produce cut or collected by Government Agency and brought to depots sold locally or otherwise disposed of during 1909–1910—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
FUEL (CUBIC FEET).					
Northern Circle.					
Ganjám	27,909	272,144	300,053	279,466	20,587
Vizagapatam	(*a*) 202,149	209,415	411,564	327,880	83,684
Gódávari, Upper	10,003	157,059	167,062	150,295	16,767
Do. Lower	91,308	680,757	772,065	557,085	214,980
Kistna	80,582	813,393	893,975	731,274	162,701
Kurnool, East	370,572	596,428	967,000	784,760	182,240
Do. West	220,765	1,151,182	1,371,947	866,508	505,439
Bellary	112,693	312,847	425,540	269,898	155,642
Anantapur	273,535	36,360	309,895	106,945	202,950
Total ..	1,389,516	4,229,585	5,619,101	4,074,111	1,544,990
Central Circle.					
Cuddapah, North	116,106	693,496	809,602	502,649	306,953
Do. East	318,203	764,056	1,082,259	834,124	248,135
Do. South	28,045	44,920	72,965	38,925 (*d*) 840 (*h*) 9,120	24,080
Nellore	137,027	720,263	857,290	(*b*) 304,109 (*c*) 1,678 (*d*) 21,099 (*g*) 332,696	197,708
Chingleput	46,354	158,973	205,327	176,856	28,471
Arcot, North	89,994	1,283,302	1,373,296	1,164,472 (*c*) 128 (*d*) 6,453	202,243
Do. South	84,661	815,787	900,448	776,561 (*c*) 3,362	120,525
Salem, North	91,990	442,300	534,290	438,457	95,833
Do. South	34,230	190,635	224,865	208,503	16,362
Trichinopoly	129,416	578,060	707,476	521,528	185,948
Tanjore	37,737	76,040	113,777	72,081	41,696
Guntúr	561,695	969,761	1,531,456	959,117	572,339
Madras depots	(*e*) 42,027 (*f*) 55,451	282,195 478,096	324,222 533,547	266,422 510,361	57,800 22,686
Total ..	1,772,936	6,737,593 (*e*) 282,195 (*f*) 478,096	9,270,820	7,150,041	2,120,779
Southern Circle.					
South Canara	456,008	207,605	663,613	397,797 (*b*) 324 (*d*) 14,976	250,516
Malabar, North	5,400	12,344	17,744	8,600 (*d*) 4,104	5,040
Do. South	22	1,548	1,570	1,165	405
The Nilgiris	364,492	170,511	535,003	267,096	267,907
Kollegal	134,903	214,565	349,468	216,660	132,808
Coimbatore, North	117,613	549,232	666,845	378,301	288,544
Do. Central	28,149	353,466	381,615	266,681	114,934
Do. South	76,960	267,298	344,258	267,874	76,384
Madura	25,452	1,206,630	1,232,082	1,227,307	4,775
Tinnevelly	1,568	3,305	4,873	4,836	37
Total ..	1,210,567	2,986,504	4,197,071	3,055,721	1,141,350
Grand Total, Presidency ..	4,373,019	14,713,973	19,086,992	14,279,873	4,807,119

(*a*) As per revised figures reported by Collectors and in the case of minor produce to conversion from maunds of 25 lbs. into maunds 28 lbs. also.
(*b*) Sold locally.
(*c*) Used departmentally.
(*d*) Written off.
(*e*) Produce received from Kurnool East.
(*f*) Produce received in Madras depots.
(*g*) Supplied to Madras depots.
(*h*) Represents deficit.

LIBRARY OF THE ... BALANCE OF THE ... STATE

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1909–1910—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance on hand at close of the year in forest and sale depots.
1	2	3	4	5	6
BAMBOOS (NUMBER).					
Northern Circle.					
Ganjám	7,491	895,823	903,314	891,693	11,621
Vizagapatam	15,165	871,519	886,684	884,656	2,028
Gódávari, Upper	40,054	15,744	55,798	53,160	2,638
Do. Lower	178,952	16,074	195,026	144,130	(*i*) 50,896
Kistna	15,276	13,800	29,075	29,075	..
Kurnool, East	176,226	721,176	897,402	826,811	70,591
Do. West	34,272	3,246,131	3,280,403	3,263,763	16,640
Bellary	162	23,252	23,414	23,414	..
Anantapur	26,919	19,167	46,086	35,822	10,264
Total ..	494,516	5,822,686	6,317,202	6,152,524	164,678
Central Circle.					
North Cuddapah	22,827	48,920	71,747	52,276	19,471
East do.	..	320	320	320	..
South do.	27,980	70,160	98,140	61,166	36,974
Nellore	15,000	4,020	19,020	(*a*) 18,000 (*b*) 20	1,000
Chingleput	..	..	..	..	..
Arcot, North	17,950	78,098	96,048	(*a*) 780 (*b*) 8 (*f*) 95,040	220
Do. South	..	2,028	2,028	(*a*) 1,185 (*b*) 243	600
Salem, North	11,338	122,143	133,481	84,573	48,908
Do. South	..	..	..	..	..
Trichinopoly	21,855	95,441	117,296	108,086	9,210
Tanjore	(*c*) 38	(*c*) 5,622	(*c*) 5,660	(*c*) 2,220	(*c*) 3,440
Guntúr	(*d*) 4,712	50,719	55,431	44,008	11,423
Madras depots	(*e*) 1,438	75,640	77,078	70,810	6,268
Total ..	123,138	421,130 (*a*) 5,622 (*b*) 50,719 (*c*) 75,640	676,249	538,735	137,514
Southern Circle.					
South Canara	9,702	8,604	18,306	11,953 (*b*) 987 (*g*) 291	5,075
Malabar, North	1,680	3,475	5,155	277 (*b*) 2,410 (*g*) 581	1,887
Do. South	47,955 (*h*) + 425	31,362	79,742	51,196 (*b*) 718 (*g*) 180	27,648
Kollegal	5,841	54,492	60,333	46,893	13,440
Coimbatore, North	..	1,925	1,925	1,555	370
Do. Central	..	684	684	684	..
Do. South	..	5,268	5,268	1,080	4,188
Total ..	65,603	105,810	171,413	118,805	52,608
Grand total, Presidency ..	683,257	6,481,607	7,164,864	6,810,064	354,800

(*a*) Sold locally.
(*b*) Used departmentally.
(*c*) Belongs to Trichinopoly district.
(*d*) Produce received from Kurnool East.
(*e*) Produce received in Madras depots from other districts.
(*f*) Supplied to Madras depots.
(*g*) Written off the accounts.
(*h*) Added to opening balance by the Collector; sandalwood remaining with Pierce Leslie & Co. was wrongly excluded from the last year's return.
(*i*) Corrected in the Board's office.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1909–1910—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
MINOR PRODUCE (MAUNDS OF 28 LBS.).					
Northern Circle.					
Ganjám	..	1,772	1,772	1,772	..
Vizagapatam	(a) 373	5,561	5,934	1,853	4,081
Gódávari, Upper	(a) 6,080	2,620	8,700	740	7,960
Do. Lower	(a) 3,271	419	3,690	2,536	1,154
Kistna	(a) 82,626	182,879	265,505	183,442	82,063
Kurnool, East	(a) 427,300	166,750	594,050	161,842	432,208
Do. West	897	6,566	7,463	6,942	521
Bellary	(a) 35,711	32,816	68,527	24,946	43,581
Anantapur	..	..	..	..	..
Total ..	556,258	399,383	955,641	384,073	571,568
Central Circle.					
Cuddapah, North	766	6,307	7,073	4,136	2,937
Do. East	358	9,089	9,447	8,897	550
Do. South	..	3	3	3	..
Nellore	3,410	7,918	11,328	1,124	10,204
Chingleput	9,081	165	9,246	5,259	3,987
Arcot, North	3,946	2,139	6,085	4,164	1,921
Do. South	545	213	758	561	197
Salem, North	409	1,261	1,670	1,390	280
Do. South	640	..	640	390	250
Trichinopoly	62	313	375	359	16
Tanjore	(b) 209	267	476	474	2
Guntúr	66,429	52,710	119,139	99,018	20,121
Madras depots	(c) 22	5,730	5,752	5,648	104
Total ..	85,877	86,115	171,992	131,423	40,569
Southern Circle.					
South Canara	105	2,190	2,295	1,461 (c) 621	213
Malabar, North	9	566	575	553	22
Do. South	2	3	5	5	(d) ..
The Nilgiris	205	1,935	2,240	582	1,658
Kollegal	827	1,943	2,770	2,582	188
Cóimbatore, North	5,042	12,844	17,886	13,866	4,020
Do. Central	6,499	15,120	21,619	2,440	19,179
Do. South	1	2	3	3	..
Tinnevelly	3	104	107	40	67
Total ..	12,793	34,707	47,500	22,153	25,347
Grand Total, Presidency ..	654,928	520,205	1,175,133	537,649	637,484

(*a*) As per revised figures reported by Collectors and in the case of minor produce to conversion from maunds of 25 lbs. into maunds of 28 lbs. also.
(*b*) Sold locally.
(*c*) Used departmentally.
(*d*) Less than 1 quarter.

ANNUAL FORM No. 79.

Forest Department, Madras Presidency.

STATEMENT showing the value of timber and other produce at sale depots for 1909–1910.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Northern Circle.			RS.			RS.	RS.	RS.
Ganjám ..	Sâl	..	3,908	1,954	..	29,032	21,774	19,820	..
	Miscellaneous	..	4,691	518	..	19,794	420	..	98
	Total, Timber.	..	8,599	2,472	..	48,826	22,194	19,722	..
	Fuel	..	27,909	723	..	20,587	457	..	266
	Bamboos ..	7,491	..	126	11,621	..	157	31	..
Vizagapatam.	Timber	..	675	506	..	1,756	1,267	761	..
	Fuel	..	202,149	1,260	..	83,684	558	..	702
	Bamboos ..	15,165	..	353	2,028	..	30	..	323
	Minor produce ..	MDS. 373	..	36	MDS. 4,081	..	489	453	..
Gódávari, Upper.	Teak	..	5,299	2,649	..	2,886	1,443	..	1,206
	Yegisi	..	2,238	585	..	2,337	584	..	1
	Miscellaneous ..	..	11,397	1,919	..	16,142	2,426	507	..
	Total, Timber..	..	19,034	5,153	..	21,365	4,453	..	700
	Fuel	..	10,003	556	..	16,767	931	375	..
	Bamboos ..	40,054	..	300	2,638	..	38	..	262
	Minor produce ..	MDS. 6,080	..	25	MDS. 7,960	..	1,475	1,450	..
Gódávari, Lower.	Teak	..	366	183	..	..	..	..	183
	Miscellaneous ..	..	334	42	..	2,558	161	119	..
	Total, Timber ..	..	700	225	..	2,558	161	..	64
	Fuel	..	91,308	4,647	..	214,980	11,197	6,550	..
	Bamboos ..	178,952	..	4,362	50,896	..	102	..	4,260
	Minor produce ..	MDS. 3,271	..	457	MDS. 1,154	..	300	..	157
Kistna ..	Timber	..	624	35	..	1,260	20	..	15
	Fuel	..	80,582	966	..	162,701	708	..	258
	Bamboos.. ..	15,275	..	134	..	..	..	..	134
	Minor produce ..	MDS. 82,626	..	623	MDS. 82,063	..	397	..	226
Kurnool, East.	Timber ..	..	27,662	20,747	..	33,266	34,318	13,571	..
	Fuel	..	370,572	11,428	..	182,240	10,630	..	808
	Bamboos ..	176,226	..	3,105	70,591	..	2,950	..	155
	Minor produce ..	MDS. 427,300	..	6,029	MDS. 432,208	..	287	..	5,742
Kurnool, West.	Timber ..	..	34,581	17,291	..	26,747	13,373	..	3,918
	Fuel	..	220,765	12,865	..	505,439	31,464	18,599	..
	Bamboos ..	34,272	..	325	16,640	..	140	..	185
	Minor produce ..	MDS. 897	..	885	MDS. 521	..	652	..	233
Bellary ..	Timber ..	..	2,096	138	..	5,864	366	228	..
	Fuel	..	112,693	7,599	..	155,642	10,495	2,896	..
	Bamboos ..	162	..	..	..	..	..	..	..
	Minor produce ..	MDS. 45,711	..	3,404	43,581	..	3,942	538	..
Anantapur ..	Timber ..	..	2,196	687	..	6,253	1,954	1,267	..
	Fuel	..	273,535	15,195	..	202,950	11,275	..	3,920
	Bamboos ..	26,919	..	1,682	10,264	..	641	..	1,041

NOTE.—For the differences between the closing balances of the preceding year and the opening balances of the year under report—please see remark (*a*) at foot of Form No. 78.

Statement showing the value of Timber and other Produce at sale depots for 1909–1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Central Circle.			Rs.			Rs.	Rs.	Rs.
Cuddapah, North.	Timber	9,030	2,258	3,000	12,909	3,227	4,522	1,522	..
	Fuel	..	(*a*) 41,529	2,810	..	69,483	5,923	3,113	..
	Bamboos	22,327	..	665	15,531	..	475	..	190
	Minor Forest produce.	..	..	..	..	400	135	135	..
Cuddapah, East.	Timber	..	3,318	1,936	..	4,507	4,219	2,283	..
	Fuel	..	318,187	13,357	..	248,135	7,372	..	5,985
	Bamboos	..	..	..	..	..	..	..	..
	Minor Forest produce.	320	..	3	..	..	..	..	3
Cuddapah, South.	Timber	2,461	1,181	250	1,578	1,503	150	..	100
	Fuel	..	3,074	391	..	3,000	375	..	16
	Bamboos	27,980	..	350	36,974	..	562	212	..
Nellore	Timber	..	6,559	820	..	772	398	..	422
	Fuel	..	137,027	18,650	..	197,708	20,896	2,246	..
	Bamboos	15,000	..	300	1,000	..	13	..	287
	Minor Forest produce.	..	3,396	2,058	..	10,205	5,189	3,131	..
Chingleput.	Timber	..	911	171	..	264	49	..	122
	Fuel	..	46,354	5,331	..	29,212	4,129	..	1,202
	Minor Forest produce.	..	(*b*)1,567 / 7,514	503	..	(*b*) 3,987	..	..	503
	Madras Depots—								
	Fuel	..	55,452	12,528	..	22,886	6,562	..	5,966
	Bamboos	1,438	..	46	6,268	..	125	79	..
	Minor Forest produce.	..	22	9	..	104	37	28	..
Arcot, North.	Red sanders	..	..	..	..	89	175	175	..
	Sandalwood	..	2,272	27,500	..	1,358	16,437	..	11,063
	Miscellaneous Timber.	821	380	194	3,885	2,401	1,270	1,076	..
	Total, Timber	821	2,652	27,694	3,885	3,848	17,882	..	9,812
	Fuel	..	60,342	3,380	..	137,141	7,681	4,301	..
	Bamboos	17,950	..	112	220	..	4	..	108
	Minor Forest produce.	(*c*) 2,512 MDS.	..	1,978	1,743 MDS.	..	1,128	..	850
Arcot, South.	Sandalwood	..	295	3,839	..	..	..	..	3,839
	Miscellaneous Timber.	..	259	121	..	..	..	..	121
	Total, Timber	..	554	3,960	..		..	..	3,960
	Fuel	..	17,480	2,753	..	(*d*) 6,966	1,453	..	1,300
Salem, North.	Timber including Sandalwood.	..	4,399	3,320	..	4,912	3,700	380	..
	Fuel	..	91,990	11,190	..	95,833	11,979	789	..
	Bamboos	11,338	..	358	48,908	..	960	602	..
	Minor Forest produce.	409	..	45	280	..	25	..	20
Salem, South.	Sandalwood	..	69½	695	..	228	2,280	1,585	..
	Miscellaneous Timber.	..	1,225½	793	..	1,496	833	40	..
	Total, Timber	..	1,295	1,488	..	1,724	3,113	1,625	..
	Fuel	..	34,230	5,310	..	16,362	2,067	..	3,243
	Minor Forest produce.	640 MDS.	..	52	..	250	5	..	47

(*a*) Includes 7,233 lbs. of charcoal valued at Rs. 65.
(*b*) Value not settled for want of local demand.
(*c*) Includes approximately eight measures of sarapappu.
(*d*) Includes 338 lbs. of charcoal valued at Rs. 0.

Statement showing the value of Timber and other Produce at sale depots for 1909–1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Central Circle—cont.			Rs.			Rs.	Rs.	Rs.
Trichinopoly.	Timber	..	638	102	..	..	..	..	102
	Fuel	..	88,469	8,122	..	142,128	16,005	7,883	..
	Bamboos ..	21,815	..	1,283	9,210	..	546	..	737
	Minor Forest produce.	MDS. 62	..	43	..	..	..	..	43
Tanjore ..	Fuel	..	13,870	2,236	..	29,841	3,841	1,605	..
	Bamboos ..	38	..	4	3,440	..	736	732	..
	Minor Forest produce.	MDS. 209	..	93	..	..	..	..	93
Guntúr ..	Timber, Miscellaneous.	..	7,527	2,231	..	2,116	823	..	1,408
	Fuel	..	(*a*)315,845	30,246	..	190,095	15,695	..	14,551
	Minor Forest produce.	1,068	..	198	1,760	..	363	165	..
	Kurnool Fue ..	..	42,027	3,470	..	57,800	5,003	1,533	..
	Do. Bamboos.	4,712	..	248	11,423	..	747	499	..
	Souther, Circle.								
Canara, South.	Timber	..	7,352	5,458	..	7,062	4,973	..	485
	Fuel	..	174,342	(*b*)17,220	..	60,819	(*b*) 6,872	..	10,348
	Bamboos ..	70	..	3	228	..	34	31	..
	Minor produce ..	QRS. 57	..	363	QRS. 34	..	546	183	..
Malabar, North.	Teak	..	71,499	47,814	..	32,123	29,082	..	..
	Vengai	..	5,618		..	3,952		..	..
	Rosewood ..	..	4,211		..	2,532		..	..
	Mathi	..	10,736		..	6,752		..	..
	Venteak	..	4,229		..	1,999		..	..
	Ironwood ..	..	8,220		..	8,198		..	..
	Miscellaneous ..	..							
	Total, Timber ..	..	104,513	47,814	..	55,556	29,082	..	18,732
	Fuel	..	5,400	270	..	5,040	244	..	26
	Bamboos ..	1,680	..	66	1,887	..	82	16	..
	Minor produce ..	QRS. 9	..	19	QRS. 22	..	205	186	..
Malabar, South.	Teak	..	115,051	155,718	..	31,510	81,480	..	..
	Rosewood ..	..	58		..	1,641		..	..
	Ironwood ..	..	10,868		..	12,284		..	..
	Mathi	..	10,108		..	17,681		..	..
	Vengai	..	70		..	500		..	..
	Miscellaneous ..	..	475		..	6,573		..	..
	Total, Timber..	..	136,630	155,718	..	70,189	81,480	..	74,238
	Fuel	..	22	2	..	405	8	6	..
	Bamboos ..	47,955	..	2,850	27,648	..	1,650	..	1,200
	Minor produce ..	QRS. 2	..	212	(*c*)	..	28	..	184
Nilgiris, The.	Teak	..	10,560	6,270	..	6,140	3,169	..	..
	Vengai	..	1,132	590	..	910	309	..	..
	Rosewood ..	..	113	49	..	254	474	..	..
	Venteak	..	..	..	..	361	33	..	..
	Miscellaneous ..	..	61	23	..	140	26	..	..
	Total, Timber ..	..	11,866	6,932	..	7,805	4,061	..	2,871
	Fuel	..	10,986	1,213	..	16,544	1,772	559	..
	Minor produce ..	QRS. 11	..	91	QRS. 12	..	331	240	..

(*a*) Includes 1,632 cubic feet of charcoal valued at Rs. 189.

(*b*) Includes value of brushwood bundles.

(*c*) Less than 1 quarter.

Statement showing the value of Timber and other Produce at sale depots for 1909-1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Southern Circle—cont.			Rs.			Rs.	Rs.	Rs.
Kollegal ..	Sandalwood ..	..	981	9,192	..	1,889	22,668	..	..
	Teak	..	165	329	..	41	5	..	..
	Vengai	..	67	134	..	1	2	..	..
	Rosewood ..	..	5	2	..	2	1	..	..
	Mathi	..	58	37	..	..	..	..	..
	Miscellaneous ..	..	218	44	..	917	236	..	..
	Total, Timber ..	..	1,494	9,738	..	2,850	22,912	13,174	..
	Fuel	..	134,903	8,866	..	9,494	593	..	7,773
	Bamboos ..	5,841	..	84	5,507	..	80	..	4
	Minor produce ..	QRS. 827	..	2,155	QRS. 188	..	2,143	..	12
Coimbatore, North.	Sandalwood ..	..	1,004	9,408	..	295	3,539	..	..
	Rosewood ..	..	2,900	967	..	290	105	..	..
	Miscellaneous ..	..	537	114	..	..	..	..	..
	Total, Timber ..	..	4,441	10,489	..	585	3,644	..	6,845
	Fuel	..	118,893	7,494	..	88	34	..	7,460
	Minor produce ..	QRS. 5,042	..	5,569	..	QRS. 4,020	5,191	..	378
Coimbatore, Central.	Timber, Miscellaneous.	..	..	..	..	13,031	2,000	2,000	..
	Fuel	..	6,513	664	..	44,599	2,870	2,206	..
	Minor produce ..	QRS. 6,499	..	1,264	QRS. 19,179	..	3,441	2,177	..
Coimbatore, South.	Teak	..	33,640	68,299	..	39,736	75,133	..	..
	Rosewood ..	..	702	1,264	..	263	486	..	..
	Ironwood ..	..	202	112	..	9	4	..	..
	Vengai	..	154	147	..	..	..	..	..
	Mathi	..	2,876	1,610	..	210	167	..	..
	Venteak	..	1,633	1,122	..	72	46	..	..
	Miscellaneous ..	..	1,130	1,064 (*a*) + 36	..	924	784	..	..
	Total, Timber ..	..	40,337	73,654	..	41,214	76,620	2,966	..
	Fuel	..	3,286	244	..	2,293	168	..	76
	Bamboos ..	..	..	..	2,183	..	202	202	..
	Minor produce ..	QRS. 1	..	8	..	..	..	..	8
Madura ..	Timber	..	1,438	359	..	973	225	..	134
	Fuel	..	25,452	2,545	..	4,775	412	..	2,133
Tinnevelly ..	Timber, Miscellaneous.	..	82	43	..	..	..	..	43
	Fuel	..	1,568	151	..	37	5	..	146
	Minor produce ..	QRS. 3	..	10	QRS. 67	..	248	238	..

(*a*) Added to opening balance by the Collector.

Statement showing the value of Timber and other Produce at sale depots for 1909-1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
				ABSTRACT.					
				RS.			RS.	RS.	RS.
Northern Circle	Timber	..	96,167	47,254	..	147,895	78,106	30,852	..
	Fuel	..	1,389,516	55,249	..	1,544,990	77,715	22,466	..
	Bamboos ..	494,516 MDS.	..	10,387	164,678 MDS.	..	4,058	..	6,329
	Minor produce ..	556,258	..	11,459	571,568	..	7,542	..	3,917
	Total ..	..	..	1.24,349	..	..	1,67,421	43.072	..
Central Circle.	Timber	..	31,292	44,972	..	22,873	34,856	..	10,116
	Fuel	..	1,265,876	1,19,774	..	1,246,990	1,08,981	..	10,793
	Bamboos ..	122,598 MDS.	..	3,366	132,974 MDS.	..	4,168	802	..
	Minor produce ..	17,719	..	4,982	18,729	..	6,882	1,900	..
	Total, value ..	..	..	1,73,094	..	..	1,54,887	..	18,207
Southern Circle.	Timber	..	308,153	3,10,205	..	199,265	2,24,997	..	85,208
	Fuel	..	481,365	38,169	..	144,094	12,978	..	25,191
	Bamboos ..	55,546 QRS.	..	3,003	37,453 QRS.	..	2,048	..	955
	Minor produce ..	12,451	..	9,691	23,522	..	12,133	2,442	..
	Total, value ..	..	..	3,61,068	..	..	2,52,156	..	1,08,912
Total, Presidency.	Timber	..	485,612	4,02,431	..	370,033	3,37,959	..	64,472
	Fuel	..	3,136,757	2,13,192	..	2,935,674	1,99,674	..	13,518
	Bamboos	672,660 MDS.	..	16,756	235,105 MDS.	..	10,274	..	6,482
	Minor produce	573,977 QRS. 12,451	..	.. 26,132	590,297 QRS. 23,522	..	.. 26,557	.. 425	.. ..
	Grand Total, Presidency ..	..	..	6,58,511	..	..	5,74 464	..	84,047

ANNUAL FORM No. 80.

Forest Department, Madras Presidency.

SUMMARY of Revenue of the different districts for the Forest year 1909–1910.

ANNUAL

Forest Department,

SUMMARY of Revenue of the different districts

Budget heads, Receipts.	Northern							
	Direction.	Parlákimedi Maliahs.	Ganjám.	Vizagapatam.	Gódávari Upper.	Gódávari Lower.	Kistna.	Kurnool West.
1	2	3	4	5	6	7	8	9
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—								
(*a*) Timber	..	550	3,879	2,058	6,690	175	403	29,881
(*b*) Firewood and charcoal	2	..	5,021	11,304	9,919	37,928	47,441	31,792
(*c*) Bamboos	..	20	7,446	12,132	2,235	1,961	262	43,902
(*d*) Sandalwood	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce	122	17	..	211	27	37	616	6,472
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	..	..	11,467	1,310	26,909	39,056	5,144	2,657
(*b*) Firewood and charcoal	..	..	1,341	1,068	135	6,364	18,307	12,184
(*c*) Bamboos	..	..	177	4,208	5,163	44,639	1,595	11
(*d*) Grazing and fodder grass	..	9	11,932	5,495	10,847	18,526	21,731	26,202
(*e*) Other produce	..	..	2,579	11,855	747	33,941	11,149	27,872
(*f*) Tree-owner's fees	..	..	790	341	..	4,743	6,858	20,060
(*g*) Other items	..	..	..	..	..	..	..	..
(*h*) Commutation fees	..	..	..	..	1,266	..	..	..
III. Confiscated drift and waifwood	..	33	293	79	530	1,933	108	730
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	
V. Miscellaneous—								
(*a*) Fines and forfeitures	..	53	371	572	..	364	623	811
(*b*) Other sources	16	175	2,055	1,505	1,235	5,235	2,320	5,726
Total, Receipts	140	857	47,351	52,138	65,703	1,94,902	1,16,557	2,08,300

Budget heads.	Central Circle—*cont.*						Northern	
	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Tanjore.	Total.	Direction.	South Canara.
	22	23	24	25	26	27	28	29
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—								
(*a*) Timber	20	5,407	2,247	96	..	59,625	..	6,230
(*b*) Firewood and charcoal	50,597	44,438	25,616	51,264	9,970	5,15,013	..	33,264
(*c*) Bamboos	106	2,446	14	3,103	..	8,618	..	906
(*d*) Sandalwood	49,150	12,446	2	1	..	83,795	63,579	..
(*e*) Grass and other minor produce	58	293	5	143	2	19,650	240	12,222
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	13,858	7,405	7,854	13,877	..	1,01,099	..	5,038
(*b*) Firewood and charcoal	33,733	1,678	7,925	19,589	3,399	1,51,504	..	12,397
(*c*) Bamboos	11,057	31,300	17,580	656	367	95,812	..	1,129
(*d*) Grazing and fodder grass	53,805	40,677	25,933	19,532	839	4,24,831	..	10,155
(*e*) Other produce	49,711	15,479	24,104	28,988	5,882	3,39,063	600	16,222
(*f*) Tree-owner's fees	2,003	3,233	393	4	93	31,520	..	3,579
(*g*) Other items	..	557	1,183	..	..	2,647	..	..
(*h*) Commutation fees	..	..	13,352	..	..	13,352	..	..
III. Confiscated drift and waifwood	320	96	177	100	..	2,989	..	1,522
IV. Revenue from forest not managed by Government	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(*a*) Fines and forfeitures	455	2,710	1,223	1,826	330	10,970	..	874
(*b*) Other sources	1,596	7,620	9,900	14,887	4,663	58,132	8,242	10,055
Total, Receipts	2,66,469	1,75,785	1,37,508	1,54,066	25,545	19,18,620	72,661	1,13,593

FORM No. 80.

Madras Presidency.

for the Forest year 1909-1910.

Circle.				Central Circle.							
Kurnool East.	Bellary.	Ananta-pur.	Total.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cudda-pah, South.	Cudda-pah, East.	Chingle-put.	North Arcot.
10	11	12	13	14	15	16	17	18	19	20	21
Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
21,812	634	1,749	67,831		2,901	1,047	21,545	122	19,644	420	6,176
12,232	15,524	19,214	1,90,377		52,676	1,13,680	35,245	3,763	42,062	25,713	59,989
11,733	874	1,243	81,808		..	285	923	695	2	..	1,044
..	..	..	..		..	..	..	..	7	..	22,189
1,865	2,116	24	11,507		7,326	7,813	726	22	1,692	182	1,388
6	12,110	9,042	1,07,701		18,596	7,383	1,811	2,490	1,913	8,974	16,938
1,020	2,609	1,069	44,097		408	52,475	5,889	1,252	859	5,282	19,015
7	10	..	55,810		..	26	1,044	251	5,777	35	27,719
42,356	46,675	24,404	2,08,177		89,324	55,548	24,549	20,873	21,444	15,658	56,649
4,277	60,973	89,398	2,42,791		19,172	38,322	25,585	57,661	16,566	13,877	43,716
3,499	24,133	10,813	71,237		5,655	2,826	1,950	2,850	1,796	3,372	7,345
73	.	..	73		..	..	..	..	907	..	..
..	..	..	1,266		.	.	..	..	..	..	..
256	43	106	4,111		86	564	161	119	485	65	816
..	..	..	..		..	..	..	..	..	..	..
335	1,755	862	5,746		127	676	447	231	377	294	2,274
1,066	8,213	3,907	31,453		9,037	6,823	427	419	363	548	1,849
1,00,537	1,75,669	1,61,831	11,23,985		2,05,308	2,87,468	1,20,302	90,748	1,13,894	74,420	2,67,107

Southern Circle.

North Malabar.	South Malabar.	Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	Total.
30	31	32	33	34	35	36	37	38	39
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
15,541	1,37,728	24,742	401	850	12,509	20,009	381	18	2,18,409
567	67	20,093	8,561	9,393	14,887	9,953	81,634	390	1,78,809
4	3,012	..	1,045	.	..	38	..	..	5,005
..	..	..	.	5,965	1	..	15	..	69,560
1,800	560	973	3,109	8,241	261	425	555	133	28,519
20,563	3,965	983	1,350	5,258	4,821	286	18,475	4,880	65,619
6	4	2,306	262	2,457	21,484	1,578	51,373	88,181	1,80,048
238	613	1,595	361	13,211	9,725	3,027	4,903	686	35,491
2,319	..	8,293	22,287	29,996	5,876	4,389	44,923	8,524	1,36,762
3,744	2,186	1,722	1,146	5,134	8,316	3,947	41,212	39,763	1,23,992
	1	..	8	..	55	4	13	312	3,972
..	..	..	..		..	..	..	42	42
..	..	..	..	..	..	..	..	..	..
97	57	70	105	450	167	55	304	1,550	4,377
..	..	..	..	..	..	..	..	..	..
429	334	215	939	2,977	696	130	721	1,133	8,448
12,018	3,985	6,658	4,701	5,608	3,902	8,177	13,001	6,195	82,545
57,326	1,52,512	67,650	44,278	89,543	82,700	52,018	2,57,510	1,51,807	11,41,598

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS,
1*st September* 1910.

J. F. GRAHAM,
Deputy Accountant-General.

Northern Circle.

NOTE.—(1) As the administration of the Parlákimedi Maliahs was placed under the control of the Agent to the Governor at Ganjám, the figures relating to it were not taken into account in the Report except in chapter III.

(2) Excludes Rs. 29,006 under I-*b* and Rs. 3,013 under I-*c* realised in Guntúr on account of fuel and bamboos of Kurnool East since reported by the Conservator, Central Circle.

Central Circle.

NOTE.—The form has been corrected in the Circle office by distributing the Madras Bank realizations and book adjustments and expenditure in Madras depots to the respective supplying districts and by deducting the revenue realised and expenditure incurred on account of the sale of Kurncol fuel and bamboos from the Guntúr district for transfer to Northern Circle to the credit of Kurnool district and by transferring the amounts realized in Tanjore on account of Trichinopoly district to the latter district.

Southern Circle.

NOTE.—The revenue under "Direction" is distributed as follows:—

I (*d*) North Coimbatore, Rs 63,579.
I (*e*) South Canara, Rs. 240.
II (*e*) South Coimbatore, Rs. 600.
V (*b*) South Coimbatore, Rs. 8,048, Direction, Rs. 194.

Forest Department, Madras Presidency, Northern Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1909–1910.

Budget heads.	Direction.	Parlákimedi Maliahs, Ganjám.	Ganjám.	Vizagapatam.	Gódávari, Upper.	Gódávari, Lower.	Kistna.	Kurnool, West.	Kurnool, East.	Bellary.	Anantapur.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Refunds and drawbacks ..	..	..	157	505	742	1,523	586	979	398	4,087	351	9,328
A. Conservancy and Works.												
Timber and other produce removed from the forest by Government Agency—												
(*a*) Timber	..	444	11,385	770	2,588	102	184	14,330	12,662	659	4,237	47,361
(*b*) Firewood and charcoal ..	..	..	3,310	5,006	8,943	20,028	28,477	36,226	29,527	14,223	9,694	1,55,434
(*c*) Bamboos ..	..	10	5,482	6,261	114	111	310	22,091	11,430	385	580	46,774
(*d*) Sandalwood ..	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce.	..	1	353	127	974	4	274	3,901	3,555	4,303	8	13,500
II. Timber and other produce removed from the forests by consumers or purchasers	..	160	6,184	5,459	4,841	12,726	1,956	13,162	8,439	2,473	1,526	56,926
III. Confiscated drift and waifwood	..	10	3	2	115	1,157	3	56	19	4	..	1,369
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	400	..	..	..	..	..	8,000	..	8,400
VI Live-stock, stores, tools and plant—												
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	..	752	974	922	..	..	801	1,925	4,556	..	9,930
(*c*) Stores, tools and plant	391	528	2,690	85	3,570	5,350	536	318	2,218	2,491	795	18,972
VII. Communications and buildings—												
(*a*) Roads and bridges ..	11,623	..	2,700	284	1,431	2,816	445	381	3,586	1,002	923	25,191
(*b*) Buildings ..	13,196	56	10,879	1,474	4,281	6,733	1,610	7,252	16,632	11,719	5,440	79,272
(*c*) Other works ..	840	1	185	52	585	464	409	387	3,593	735	124	7,375
VIII. Demarcation, improvement and extension of forests—												
(*a*) Demarcation ..	..	577	2,803	520	147	671	941	1,984	738	1,495	2,354	12,230
(*b*) Cost of forest settlement; compensation for land and rights.	..	2	63	..	..	21	..	23	312	89	..	510
(*c*) Surveys—												
(1) Local ..	647	..	796	..	994	368	961	1,049	1,762	1,047	819	8,443
(2) India ..	2,306	..	..	..	..	..	..	..	..	..	..	2,306
(*d*) Working plans ..	..	..	..	..	..	486	..	..	..	..	..	486
(*e*) Sowing and planting	5,897	20	1,285	151	1,268	5,148	8,725	46,434	11,335	50,693	3,950	1,34,906
(*f*) Protection from fire	..	..	2,957	1,614	9,399	4,693	1,196	8,434	20,565	9,670	1,910	60,438
(*g*) Other works ..	..	..	435	26	50	398	11,834	1,643	1,010	15,900	6,536	37,832
IX. Miscellaneous—												
(*a*) Law charges ..	48	..	..	..	..	..	..	..	55	..	.	103
(*b*) Other charges ..	57	..	62	2	1	13	4	69	48	344	605	1,205
Total, A. Conservancy and Works	35,005	1,809	52,481	23,712	40,965	62,812	58,451	1,59,520	1,29,809	1,33,875	39,852	7,38,291

Summary of Expenditure of the different districts for the Forest year 1909–1910—*cont.*

Budget heads.	Direction.	Parlakimidi Malias, Ganjám.	Ganjám.	Vizagapatam.	Gódávari, Upper.	Gódávari, Lower.	Kistna.	Kurnool, West.	Kurnool, East.	Bellary.	Anantapur.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs. (a)	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward, Total, A. Conservancy and Works	35,005	1,809	52,481	23,712	40,965	62,812	58,451	1,59,520	1,29,809	1,33,875	39,852	7,38,291
B. Establishments.												
I. Salaries—												
(a) Conservators	20,400	..	..	..	..	..	..	..	..	..	..	20,400
(b) Superior officers	8,797	4,410	11,356	15,000	3,600	5,951	4,800	17,812	9,150	19,964	7,725	1,08,565
(c) Subordinate Forest and Depot establishments	10,118	1,852	14,758	7,170	6,157	12,111	9,007	23,153	22,983	24,401	10,487	1,42,197
(d) Office establishments	11,128	746	4,374	2,878	3,237	5,435	3,357	7,333	6,496	7,127	3,764	55,875
(e) Deputation and special allowances	..	..	..	..	..	..	..	..	..	..	..	..
Exchange compensation allowance.	4	..	..	..	..	..	..	..	..	..	..	4
II. Travelling allowances—												
(a) Conservators	3,349	..	..	..	..	..	..	..	..	..	225	3,574
(b) Superior officers	2,099	2,124	2,712	1,379	2,116	648	1,173	3,062	2,277	2,093	1,680	21,363
(c) Subordinate Forest and Depot establishments	2,847	467	3,672	1,888	2,246	3,447	2,423	6,157	5,823	7,025	3,032	39,027
(d) Office establishments	1,429	342	955	681	972	846	810	1,285	2,263	1,291	1,323	12,197
III. Contingencies—												
(a) Rents, rates and taxes	107	50	100	416	2	132	607	228	182	697	84	2,605
(b) Official postage and telegrams..	1,516	89	1,084	557	660	1,537	967	1,639	1,994	1,539	1,305	12,887
(c) Sundries	2,391	498	1,933	666	956	2,289	920	2,263	2,952	2,495	1,402	18,765
Total, B. Establishments ..	64,185	10,578	40,944	30,635	19,946	32,396	24,064	62,932	54,120	66,632	31,027	4,37,459
Grand total of expenditure ..	99,190	12,387	93,425	54,347	60,911	95,208	82,515	2,22,452	1,83,929	2,00,507	70,879	11,75,750

(a) Corrected in the Board's Office.

MADRAS,
31*st August* 1910.

J. F. GRAHAM,
Dy. Accountant-General.

Note.—(1) As the administration of the Parlákimedi Maliahs was placed under the control of the Agent to the Governor at Ganjám the figures relating to it were not taken into account in the report except in Chapter III.

(2) Excludes Rs. 17,479 under I-*b* and Rs. 679 under I-*c* spent in Guntúr on account of fuel and bamboos of Kurnool East since reported by the Conservator, Central Circle.

A. W. LUSHINGTON,
Conservator of Forests, Northern Circle.

Forest Department, Madras Presidency, Central Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1909–1910.

Budget heads.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, South.	Cuddapah, East.	Chingleput.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Tanjore.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. REFUNDS AND DRAWBACKS.	8	923	3,163	2,221	1,366	52	600	1,795	2,978	1,333	387	694	335	15,855
A. Conservancy and Works.														
Timber and other produce removed from the forest by Government Agency—														
(*a*) Timber ..	..	587	629	9,945	297	3,857	155	1,981	157	3,375	2,348	205	.	23,536
(*b*) Firewood and charcoal ..	— 149	27,777	75,552	24,986	2,767	34,157	15,729	32,496	18,705	36,071	22,288	39,529	7,308	3,37,216
(*c*) Bamboos ..	..	..	53	365	537	1	..	914	71	2,162	.	3,219	1	7,323
(*d*) Sandalwood ..	..	..	..	..	..	..	..	1,612	2,976	943	319	..	..	5,850
(*e*) Grass and other minor produce ..	..	5,564	4,155	229	11	1,535	69	950	24	101	35	63	..	12,736
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	4,425	3,250	6,487	2,845	8,208	2,100	4,375	2,956	1,892	6,851	1,989	334	45,712
III. Confiscated drift and waifwood	..	2	5	6	22	55	..	79	2	8	31	..	.	210
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..
VI. Live-stock, stores, tools and plant—														
(*a*) Purchase of cattle ..	..	..	..	..	..	422	..	45	..	1,861	..	50	..	2,378
(*b*) Feed and keep of cattle ..	..	..	..	..	..	1,095	..	357	1,158	5,554	..	2,659	..	10,823
(*c*) Stores, tools and plant ..	356	1,035	7,587	264	261	158	513	713	1,222	1,870	208	2,932	1,538	18,657
VII. Communications and buildings—														
(*a*) Roads and bridges ..	..	204	239	1,130	207	1,084	1,002	3,107	274	14,445	1,139	— 282	..	22,549
(*b*) Buildings ..	12	3,099	3,323	1,966	1,516	1,500	2,761	2,804	7,248	12,737	3,430	683	657	41,736
(*c*) Other works ..	..	486	254	326	..	19	49	8	2,634	1,100	52	418	..	5,346
VIII. Demarcation, improvement and extension of forests—														
(*a*) Demarcation ..	..	307	1,466	266	57	252	2,346	483	1,150	549	149	137	..	7,162
(*b*) Cost of forest settlement; compensation for land and rights ..	..	4,328	95	..	..	29	..	135	..	187	73	..	..	4,847
(*c*) Surveys—														
(1) Local ..	860	384	406	..	..	319	385	317	375	2,179	801	980	38	7,044
(2) India ..	3	..	..	..	..	..	..	..	..	..	..	..	..	3
(*d*) Working-plans.	6	10	138	496	..	153	..	..	397	..	73	..	..	1,273
(*e*) Sowing and planting ..	136	13,480	15,445	858	648	547	2,837	3,530	2,699	571	366	3,252	1,645	46,014
(*f*) Protection from fire	..	..	1,553	3,778	671	5,159	898	1,932	2,387	2,442	3,329	86	..	22,235
(*g*) Other works ..	..	12,427	5,673	3,774	2,241	1,232	9,666	18,509	18,080	7,996	7,462	5,478	919	93,457
X. Miscellaneous—														
(*a*) Law charges ..	48	..	..	..	..	..	..	41	..	50	..	..	..	139
(*b*) Other charges ..	..	..	265	122	..	28	35	81	35	288	24	31	..	909
Total, A. Conservancy and Works	1,280	75,038	1,23,251	57,219	13,446	59,862	39,145	76,264	65,528	97,714	49,365	62,123	12,775	7,33,010

NOTE.—*Vide* footnote under summary of revenue.

MADRAS,
1st September 1910

J. F. GRAHAM,
Dy. Accountant-General

Summary of Expenditure of the different districts for the Forest year 1909–1910—*cont.*

Budget heads.	Direction.	Guntûr.	Nellore.	Cuddapah, North.	Cuddapah, South.	Cuddapah, East.	Chingleput.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Tanjore.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.
Brought forward, total ..	1,280	75,038	1,23,251	57,219	13,446	59,862	39,145	76,264	65,528	97,714	49,365	62,123	12,775	7,33,010
B. Establishments.														
I. Salaries—														
(*a*) Conservators	23,265	..	..	..	..	..	..	..	..	..	..	..	..	23,265
(*b*) Superior officers ..	3,416	17,874	5,400	2,882	11,158	4,050	3,992	18,394	5,500	16,930	8,774	9,058	..	1,07,428
(*c*) Subordinate Forest and Depot establishments.	7,942	12,535	14,737	7,852	4,514	12,334	8,085	23,385	14,776	14,629	12,607	10,109	1,908	1,45,413
(*d*) Office establishments ..	10,130	5,253	9,852	3,809	2,667	4,140	2,689	5,785	7,202	5,426	4,950	4,143	1,734	67,780
(*e*) Deputation and Special allowances	..	..	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling allowances—														
(*a*) Conservators ..	2,724	..	..	..	..	..	..	..	..	..	..	..	..	2,724
(*b*) Superior officers ..	..	1,199	1,265	951	1,149	962	1,155	1,826	1,238	1,929	1,090	796	462	14,022
(*c*) Subordinate Forest and Depot establishments ..	1,753	3,045	4,863	2,174	1,126	2,866	1,945	5,103	3,476	4,895	3,293	3,455	982	38,976
(*d*) Office establishments	1,070	1,224	2,200	821	630	747	396	818	1,041	1,352	440	968	258	11,965
III. Contingencies—														
(*a*) Rents, rates and taxes	..	279	689	296	321	447	216	284	418	50	77	142	120	3,346
(*b*) Official postage and telegrams	1,053	1,190	1,457	915	521	903	677	2,150	2,327	2,281	953	1,247	401	16,075
(*c*) Sundries	1,744	1,153	1,362	1,630	679	949	416	838	1,807	1,697	967	2,265	415	15,922
Total, B. Establishments ..	53,097	43,752	41,825	21,330	22,772	27,398	19,571	58,583	37,785	49,189	33,151	32,183	6,280	4,46,916
Grand total of expenditure.	54,377	1,18,790	1,65,076	78,549	36,218	87,260	58,716	1,34,847	1,03,313	1,46,903	82,516	94,306	19,055	11,79,926

NOTE.—*Vide* footnote under summary of revenue.

MADRAS,
1*st September* 1910.

J. F. GRAHAM,
Dy. Accountant-General.

Forest Department, Madras Presidency, Southern Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1909-1910.

Budget heads.	Direction.	South Canara.	North Malabar.	South Malabar.	Nilgiris, The.	Kollegal.	Coimbatore, North.	Coimbatore, Central.	Coimbatore, South.	Madura.	Tinnevelly.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. REFUNDS AND DRAWBACKS.	4	364	1,006	35	168	12	1,033	263	252	1,116	1,011	5,264
A. Conservancy and Works.												
Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber ..	..	1,628	4,343	7,203	3,624	176	68	690	11,156	..	..	28,888
(*b*) Firewood and charcoal ..	— 6	11,616	264	..	11,922	6,748	7,092	16,352	8,114	52,002	10	1,14,144
(*c*) Bamboos ..	..	494	85	1,385	..	349	10	40	418	..	..	2,781
(*d*) Sandalwood ..	..	..	..	..	289	2,199	16,474	..	..	..	..	19,962
(*e*) Grass and other minor produce.	..	3,076	400	2	1,214	1,241	4,333	887	46	..	126	11,325
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	5,787	455	4	841	1,409	2,610	3,435	2,845	3,236	3,220	23,862
III. Confiscated drift and waifwood	..	5	56	31	9	7	12	16	14	30	..	180
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	88	4,500	..	..	..	2,500	..	..	7,088
VI. Live-stock, stores, tools and plant—												
(*a*) Purchase of cattle ..	..	..	2,694	1,825	393	..	..	..	328	159	164	5,563
(*b*) Feed and keep of cattle ..	— 54	4,382	35,458	17,748	9,626	3,621	17	..	13,410	1,359	1	85,568
(*c*) Stores, tools and plant ..	639	2,037	1,343	1,093	1,911	932	1,304	771	4,067	664	452	15,213
VII. Communications and buildings—												
(*a*) Roads and bridges ..	..	2,309	2,272	1,092	2,742	2,963	6,476	1,362	4,830	8,9[illegible]8	5,409	38,423
(*b*) Buildings ..	40	2,185	5,214	1,231	7,097	4,477	4,854	1,677	7,190	5,2[illegible]0	4,248	43,503
(*c*) Other works ..	..	619	104	947	218	121	884	183	575	707	299	4,657
VIII. Demarcation, improvement and extension of forests—												
(*a*) Demarcation ..	..	1,996	..	567	1,986	169	136	517	288	6,994	549	13,202
(*b*) Cost of forest settlement; compensation for land and rights ..	..	68	..	1,02,951	..	..	20	..	1,302	1,744	2,594	1,08,679
(*c*) Surveys { Local.	..	385	576	362	380	52	494	621	463	623	319	4,275
(*c*) Surveys { India.	..	..	..	..	..	..	..	..	..	..	..	..
(*d*) Working plans.	..	..	22	188	..	..	2	..	..	..	..	212
(*e*) Sowing and planting ..	544	457	1,386	8,860	2,026	7	89	371	1,362	9,053	1,614	26,269
(*f*) Protection from fire	..	3,475	4,400	2,297	3,801	1,242	1,256	2,354	1,662	2,490	2,592	25,569
(*g*) Other works ..	..	785	1,982	2,148	1,281	2,689	3,791	8,933	1,114	11,973	5,913	40,609
IX. Miscellaneous—												
(*a*) Law charges ..	48	1	.	..	..	..	..	..	— 95	..	73	27
(*b*) Other charges ..	465	57	165	91	3,568	61	76	492	284	71	38	5,368
Total, A. Conservancy and Works	1,680	41,726	62,725	1,50,148	57,596	29,475	51,051	38,994	62,125	1,06,479	28,632	6,30,631

MADRAS,
1*st September* 1910.

J. F. GRAHAM,
Deputy Accountant-General.

Note.—In Central Coimbatore Rs. 642 and Rs. 113 which were debited to A-VII (*a*) and A-VII (*b*) respectively have been erroneously included under A-VII (*b*) and A-VII (*c*) in the audit office. The correct figures should be as follow :—

		Central Coimbatore.	Total.
A-VII	(*a*)	2,004	39,065
	(*b*)	1,148	42,974
	(*c*)	70	4,544

Summary of Expenditure of the different districts for the Forest year 1909–1910—*cont.*

Budget heads.	Direction.	Canara, South.	Malabar, North.	Malabar, South	Nilgiris, The.	Kollegal.	Coimbatore, North.	Coimbatore, Centre.	Coimbatore, South.	Madura.	Tinnevelly.	Total
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, total, A. Conservancy and Works.	1,680	41,726	62,725	1,50,148	57,596	29,475	51,651	38,994	62,125	1,06,479	28,632	6,30,631
B. Establishments.												
I. Salaries—												
(*a*) Conservators ..	18,000	..	..	..	..	..	..	..	..	..	..	18,000
(*b*) Superior officers ..	3,240	9,602	15,625	4,120	15,388	..	14,178	10,226	19,491	16,787	13,150	1,21,807
(*c*) Subordinate Forest and Depot establishments ..	5,608	13,636	10,094	7,391	12,568	6,969	13,087	7,006	7,881	14,929	15,830	1,14,989
(*d*) Office establishments	10,856	6,310	4,774	4,179	5,191	3,420	5,157	3,167	4,298	4,995	4,816	57,163
(*e*) Deputation and special allowances	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling Allowances—												
(*a*) Conservators ..	2,455	..	..	..	..	..	..	..	..	..	..	2,455
(*b*) Superior officers ..	578	2,041	1,551	1,186	2,338	706	1,021	1,285	2,230	1,814	1,231	15,981
(*c*) Subordinate Forest and Depot establishments ..	1,626	4,179	2,214	2,367	2,448	1,959	2,848	2,103	1,699	5,393	3,921	30,757
(*d*) Office establishments	872	1,151	960	1,048	529	482	585	662	597	1,336	926	9,148
III. Contingencies—												
(*a*) Rents, rates and taxes	120	40	82	16	846	87	66	86	109	1,173	201	2,826
(*b*) Official postage and telegrams ..	676	1,504	601	703	451	673	1,011	698	684	1,469	1,151	9,621
(*c*) Sundries	1,795	1,039	1,280	2,747	902	1,397	1,458	1,174	1,414	1,679	988	15,873
Total, B. Establishments.	45,826	39,502	37,181	23,747	40,661	15,693	39,411	26,407	38,403	49,575	42,214	3,98,620
Grand total of Expenditure.	47,506	81,228	99,906	1,73,895	98,257	45,168	90,462	65,401	1,00,528	1,56,054	70,846	10,29,251

MADRAS,
1*st September* 1910.

J. F. GRAHAM,
Deputy Accountant-General.

SUMMARY of Receipts and Expenditure during 1909–1910 for each circle and for the Presidency compiled in the Board's office from the Accountant-General's statement.

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1909–1910.	1908–1909.
1	2	3	4	5	6
RECEIPTS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	67,831	59,625	2,18,409	3,45,865	3,74,411
(b) Firewood and charcoal	1,90,377	5,15,013	1,78,809	8,84,199	7,46,103
(c) Bamboos	81,808	8,618	5,005	95,431	92,056
(d) Sandalwood	..	83,795	69,560	1,53,355	87,130
(e) Grass and other minor produce ..	11,507	19,650	28,519	59,676	50,514
Total, I ..	3,51,523	6,86,701	5,00,302	15,38,526	13,50,214
II Timber and other produce removed from the forests by consumers or purchasers—					
(a) Timber	1,07,701	1,01,099	65,619	2,74,419	2,45,319
(b) Firewood and charcoal	44,097	1,51,504	1,80,048	3,75,649	3,91,639
(c) Bamboos	55,810	95,812	35,491	1,87,113	1,61,602
(d) Grazing and fodder grass	2,08,177	4,24,831	1,36,762	7,69,770	7,82,510
(e) Other produce	2,42,791	3,39,063	1,23,992	7,05,846	6,33,718
(f) Tree-owners' fees	71,237	31,520	3,972	1,06,729	98,613
(g) Other items	73	2,647	42	2,762	917
(h) Commutation fees	1,266	13,352	..	14,618	22
Total, II ..	7,31,152	11,59,828	5,45,926	24,36,906	23,14,340
III. Confiscated drift and waif wood	4,111	2,989	4,377	11,477	15,178
IV. Revenue from forests not managed by Government	..	..	..	..	..
V. Miscellaneous—					
(a) Fines and forfeitures	5,746	10,970	8,448	25,164	9,608
(b) Other sources	31,453	58,132	82,545	1,72,130	1,96,956
Total, V ..	37,199	69,102	90,993	1,97,294	2,06,564
Grand Total, Receipts	11,23,985	19,18,620	11,41,598	41,84,203	38,86,296
EXPENDITURE.					
I. Refunds and drawbacks	9,328	15,855	5,264	30,447	24,379
A. Conservancy and Works.					
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	47,361	23,536	28,888	99,785	97,946
(b) Firewood and charcoal	1,55,434	3,37,216	1,14,144	6,06,794	5,25,249
(c) Bamboos	46,774	7,323	2,781	56,878	58,197
(d) Sandalwood	..	5,850	19,962	25,812	22,339
(e) Grass and other minor produce ..	13,500	12,736	11,325	37,561	31,765
Total, A-I ..	2,63,069	3,86,661	1,77,100	8,26,830	7,35,496
II. Timber and other produce removed from the forests by consumers or purchasers ..	56,926	45,712	23,862	1,26,500	1,29,930
III. Confiscated drift and waif wood	1,369	210	180	1,759	1,794
V. Rent of leased forests and payments to shareholders in forests managed by Government	8,400	..	7,088	15,488	15,634
VI. Live-stock, stores, tools and plant—					
(a) Purchase of cattle	..	2,378	5,563	7,941	6,523
(b) Feed and keep of cattle ..	9,930	10,823	85,568	1,06,321	1,02,096
(c) Stores, tools and plant	18,972	18,657	15,213	52,842	55,407
Total, A-VI ..	28,902	31,858	1,06,344	1,67,104	1,64,026
VII. Communications and buildings—					
(a) Roads and bridges	25,191	22,549	38,423	86,163	81,862
(b) Buildings	79,272	41,736	43,503	1,64,511	1,35,033
(c) Other works	7,375	5,346	4,657	17,378	10,063
Total, A-VII ..	1,11,838	69,631	86,583	2,68,052	2,26,958

Summary of Receipts and Expenditure during 1909-1910 for each circle and for the Presidency compiled in the Board's office from the Accountant-General's statement—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1908-1909.	1909-1910.
1	2	3	4	5	6
EXPENDITURE—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.
A. Conservancy and Works—cont.					
VIII. Demarcation, improvement and extension of forests—					
(*a*) Demarcation	12,230	7,162	13,202	32,594	34,789
(*b*) Cost of forest settlement, compensation for land and rights	510	4,847	1,08,679	1,14,036	6,767
(*c*) Surveys. (1) Local	8,443	7,044	4,275	19,762	18,343
(*c*) Surveys. (2) India	2,306	3	..	2,309	2,560
(*d*) Working-plans	486	1,273	212	1,971	2,720
(*e*) Sowing and planting	1,34,906	46,014	26,269	2,07,189	1,59,849
(*f*) Protection from fire	60,438	22,235	25,569	1,08,242	98,787
(*g*) Other works	37,832	93,457	40,609	1,71,898	1,57,516
Total, A-VIII ..	2,57,151	1,82,035	2,18,815	5,58,001	4,81,331
IX. Miscellaneous—					
(*a*) Law charges	103	139	27	269	353
(*b*) Other charges	1,205	909	5,368	7,482	9,351
Total, A-IX ..	1,308	1,048	5,395	7,751	9,704
Total, A. Conservancy and Works, inclusive of Refunds	7,38,291	7,33,010	6,30,631	21,01,932	17,89,252
B. Establishments.					
I. Salaries—					
(*a*) Conservators	20,400	23,265	18,000	61,665	61,055
(*b*) Superior officers	1,08,565	1,07,428	1,21,807	3,37,800	3,22,463
(*c*) Subordinate forest and depot establishments	1,42,197	1,45,413	1,14,989	4,02,599	3,73,494
(*d*) Office establishments	55,875	67,780	57,163	1,80,818	1,66,047
(*e*) Deputation and special allowances ..	..	..	..	..	..
(*f*) Exchange compensation allowance ..	4	..	..	4	350
Total, B-I ..	3,27,041	3,43,886	3,11,959	9,82,886	9,23,409
II. Travelling allowances—					
(*a*) Conservators	3,574	2,724	2,455	8,753	8,625
(*b*) Superior officers	21,363	14,022	15,981	51,366	50,661
(*c*) Subordinate forest and depot establishments	39,027	38,976	30,757	1,08,760	98,600
(*d*) Office establishment	12,197	11,965	9,148	33,310	28,904
Total, B-II ..	76,161	67,687	58,341	2,02,189	1,86,790
III. Contingencies—					
(*a*) Rents, rates and taxes	2,605	3,346	2,826	8,777	6,587
(*b*) Official postage and telegrams ..	12,887	16,075	9,621	38,583	35,646
(*c*) Sundries	18,765	15,922	15,873	50,560	43,674
Total, B-III ..	34,257	35,343	28,320	97,920	85,907
Total, B. Establishments ..	4,37,459	4,46,916	3,98,620	12,82,995	11,96,106
Grand Total, Expenditure ..	11,75,750	11,79,926	10,29,251	33,84,927	29,85,358
Surplus	−51,765	+7,38,694	+1,12,347	+7,99,276	+9,00,938
Total ..	11,23,985	19,18,620	11,41,598	41,84,203	38,86,296

ANNUAL FORM No. 81.

Forest Department, Madras Presidency.

OUTSTANDINGS and Liabilities on account of Contractors and Disbursers for the Forest year 1909–1910.

District.	Department Debtor.			Department Creditor.			Balance due.	
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
1	2	3	4	5	6	7	8	9
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Northern Circle.								
Conservator of Forests, Northern Circle	..	45,948 3 10	45,948 3 10	2,090 2 3	46,280 10 4	48,370 12 7	2,422 8 9	..
Parlákimedi, Maliahs ..	..	3,803 5 11	3,803 5 11	130 1 0	3,724 13 2	3,854 14 2	51 8 3	..
Ganjám	..	91,047 13 3	91,047 13 3	2,157 5 7	92,363 8 11	94,520 14 6	3,473 1 3	..
Vizagapatam	..	44,914 0 4	44,914 0 4	955 2 11	45,013 15 1	45,969 2 0	1,055 1 8	..
Gódávari, Upper	..	53,744 9 1	53,744 9 1	3,184 13 5	55,741 0 10	58,925 14 3	5,181 5 2	..
Do. Lower	..	89,336 15 3	89,336 15 3	1,968 10 10	89,207 15 2	91,176 10 0	1,839 10 9	..
Kistna	..	76,929 9 9	76,929 9 9	1,998 8 7	76,241 13 9	78,240 6 4	1,310 12 7	..
Kurnool, West	..	2,64,558 5 2	2,64,558 5 2	6,640 13 11	2,63,385 3 4	2,70,026 1 3	5,467 12 1	..
Do. East	..	2,39,521 3 4	2,39,521 3 4	8,010 14 7	2,37,933 10 7	2,45,944 9 2	6,423 5 10	..
Bellary	..	1,99,795 8 1	1,99,795 8 1	6,884 5 2	1,97,700 5 4	2,04,584 10 6	4,789 2 5	..
Anantapur	..	73,440 13 7	73,440 13 7	1,544 10 9	74,402 11 0	75,947 5 9	2,506 8 2	..
Total ..	..	11,83,040 7 7	11,83,040 7 7	35,565 9 0	11,81,995 11 6	12,17,561 4 6	34,620 12 11	..
Central Circle.								
Conservator of Forests, Central Circle	..	1,096 12 10	1,096 12 10	39 7 10	1,216 2 9	1,255 10 7	158 13 9	..
Guntúr	..	1,03,637 10 8	1,03,637 10 8	1,696 4 3	1,04,893 10 1	1,06,589 14 4	2,952 3 8	..
Nellore	..	1,50,086 13 3	1,50,086 13 3	6,031 2 7	1,49,380 11 10	1,55,411 14 5	5,325 1 2	..
Cuddapah, North	..	95,427 9 7	95,427 9 7	430 10 1	96,847 0 2	97,277 10 3	1,850 0 8	..
Do. South	..	26,965 13 2	26,965 13 2	762 10 10	27,343 0 0	28,105 10 10	1,139 13 8	..
Do. East	..	69,761 7 0	69,761 7 0	1,052 14 7	69,372 13 9	70,425 12 4	664 5 4	..
Chingleput	..	80,329 5 2	80,329 5 2	1,785 3 4	81,396 9 1	83,181 12 5	2,852 7 3	..
Arcot, North	..	1,45,390 9 6	1,45,390 9 6	1,815 14 11	1,46,944 12 1	1,48,760 11 0	3,370 1 6	..
Do. South	..	1,21,764 4 0	1,21,764 4 0	2,104 9 2	1,21,129 0 1	1,23,233 9 3	1,469 5 3	..
Salem, North	..	1,37,276 13 10	1,37,276 13 10	6,740 2 7	1,39,139 5 2	1,45,879 7 9	8,602 9 11	..
Do. South	..	80,239 4 1	80,239 4 1	1,927 0 4	80,390 15 6	82,317 15 10	2,078 11 9	..
Trichinopoly	..	87,118 9 2	87,118 9 2	1,272 14 4	88,649 7 7	89,922 5 11	2,803 12 9	..
Tanjore	..	23,694 3 9	23,694 3 9	810 1 7	24,957 5 7	25,767 7 2	2,073 3 5	..
Total ..	..	11,22,789 4 0	11,22,789 4 0	26,469 0 5	11,31,660 13 8	11,58,129 14 1	35,340 10 1	..
Southern Circle.								
Conservator of Forests, Southern Circle.	..	1,309 13 9	1,309 13 9	127 10 1	1,215 5 6	1,342 15 7	33 1 10	..
The Nilgiris	..	72,670 8 4	72,670 8 4	1,629 11 2	73,622 14 11	75,252 10 1	2,582 1 9	..
North Coimbatore	..	67,268 0 0	67,268 0 0	1,739 9 8	68,502 4 0	70,241 13 8	2,973 13 8	..
Central do.	..	62,658 12 8	62,658 12 8	1,785 11 5	62,333 9 2	64,119 4 7	1,460 7 11	..
South do.	..	79,874 2 8	79,874 2 8	1,541 14 4	82,019 12 2	83,561 10 6	3,687 7 10	..
Kollegal	..	53,408 0 6	53,408 0 6	1,495 9 0	54,708 15 7	56,204 8 7	2,796 8 1	..
Madura	..	1,37,653 7 7	1,37,653 7 7	2,822 5 0	1,38,356 6 6	1,41,178 11 6	3,525 3 11	..
Tinnevelly	..	56,900 5 4	56,900 5 4	1,530 8 3	56,362 15 6	57,893 7 9	993 2 5	..
North Malabar	..	74,687 15 0	74,687 15 0	1,660 10 9	76,197 10 6	77,858 5 3	3,170 6 3	..
South do.	..	1,59,300 4 5	1,59,300 4 5	1,402 3 9	1,58,980 0 7	1,60,382 4 4	1,081 15 11	..
Do. Canara	..	72,600 15 3	72,600 15 3	665 6 10	72,887 8 11	73,552 15 9	952 0 6	..
Total ..	..	8,38,332 5 6	8,38,332 5 6	16,401 4 3	8,45,187 7 4	8,61,588 11 7	23,256 6 1	..
Grand Total ..		31,44,162 1 1	31,44,162 1 1	78,435 13 8	31,58,844 0 6	32,37,279 14 2	93,117 13 1	

MADRAS,
1st *September* 1910.

J. F. GRAHAM,
Deputy Accountant-General.

Annual Form No. 82.

Forest Department, Madras Presidency

Revenue received and outstandings on account of Revenue during the Forest year 1909–1910.

District.	Particulars.	Outstandings at commencement of the year.	Value of sales and other revenue during the year.	Total.	Amount realized during the year.	Balance due to the department at the end of year.	Remarks.
Northern Circle.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
Direction	Timber and other forest produce.	..	140 0 0	140 0 0	140 0 0	..	..
Ganjám	Do. do.	1,775 12 0	(*k*) 45,584 4 0	(*l*) 47,360 0 0	(*m*) 47,351 0 0	(*a*)&(*n*) 9 0 0	..
Vizagapatam ..	Do. do.	67 8 0	52,226 12 0	52,294 4 0	52,138 0 0	(*b*) 156 4 0	..
Gódávari, Upper.	Do. do.	282 9 10	68,847 12 7	69,130 6 5	65,703 0 0	(*a*) 3,427 6 5	..
Do. Lower.	Do. do.	549 14 4	1,96,529 7 9	1,97,079 6 1	1,94,902 0 0	(*c*) 2.177 6 1	..
Kistna	Do. do.	2,842 13 0	1,19,230 6 2	1,22,073 3 2	1,16,557 0 0	(*d*) 5,516 3 2	..
Kurnool, East ..	Do. do.	259 6 6	1,02,056 12 5	1,02,316 2 11	1,00,537 0 0	(*a*) 1,779 2 11	..
Do. West ..	Do. do.	2,656 12 0	2,06,148 1 11	2,08,804 13 11	2,08,300 0 0	(*a*) 504 13 11	..
Bellary	Do. do.	81,876 0 0	1,27,427 0 2	2,09,303 0 2	1,75,669 0 0	(*e*)33,634 0 2	..
Anantapur ..	Do. do.	47,573 5 9	1,18,718 12 6	1,66,297 2 3	1,61,831 0 0	(*f*) 4,466 2 3	..
	Total ..	1,37,889 1 5	10,36,909 5 6	11,74,798 6 11	11,23,128 0 0	51,670 6 11	..
Central Circle.							
Direction ..	Timber and other produce.	..	..	..	..	..	..
Cuddapah, North.	Do. do.	1,441 14 3	1,29,514 3 6	1,30,956 1 9	1,20,302 0 0	10,654 1 9	9,176
Do. East ..	Do. do.	181 6 10	1,18,054 10 0	1,18,236 0 10	1,13,894 0 0	4,342 0 10	1,900
Do. South ..	Do. do.	8,975 1 0 * — 1,077 9 4	91,185 1 2	99,082 8 10	90,748 0 0	8,334 8 10	2,414
Nellore	Do. do.	75,916 5 8	2,48,155 15 0	3,24,072 4 8	2,87,468 0 0 (*g*)+ 95 0 7	36,509 4 1	34,471
Chingleput ..	Do. do.	5,996 11 11	71,462 0 7	77,458 12 6	74,420 0 0	3,038 12 6	..
Arcot, North ..	Do. do.	71,798 11 5	2,14,364 6 2	2,86,163 1 7	2,67,107 0 0	19,056 1 7	17,420
Do. South ..	Do. do.	15,645 7 2 * — 64 1 6	2,88,944 13 4	3,04,526 3 0	2,66,469 0 0 (*h*) + 3 4 0	38,053 15 0	31,195
Tanjore ..	Do. do.	752 10 4	25,337 11 2	26,090 5 6	25,545 0 0 (*i*)+ 222 12 5	322 9 1	..
Trichinopoly ..	Do. do.	7,990 3 7	1,48,827 10 6	1,56,817 14 1	1,54,066 0 0	2,751 14 1	204
Salem, North ..	Do. do.	8,491 8 5	1,80,027 9 8	1,88,519 2 1	1,75,785 0 0 (*j*) + 23 4 0	12,710 14 1	8,162
Do. South ..	Do. do.	7,951 0 10	1,33,537 5 0	1,41,488 5 10	1,37,508 0 9	3,980 5 10	..
Guntúr	Do. do.	4,476 14 1 * —56 0 0	2,01,807 0 4	2,06,227 14 5	2,05,308 0 0	919 14 5	..
	Total ..	2,09,617 15 6 — 1,197 10 10	18,51,218 6 5	20,59,638 11 1	19,18,620 0 0 + 344 5 0	1,40,674 6 1	† 1,04,942
Southern Circle.							
Direction	Timber and other forest produce.	..	194 10 1	194 10 1	194 10 1	..	..
Canara, South ..	Do. do.	5,443 0 4 — 178 14 0	1,22,635 0 1	1,27,899 2 5	1,13,833 0 0 ‡ 188 3 1	13,877 15 4	..
Malabar, North ..	Do. do.	4,867 15 7 — 1,757 13 9	65,218 13 8	68,328 15 6	57,326 0 0	11,002 15 6	..
Do. South ..	Do. do.	24,312 13 5 — 34 0 2	1,34,055 14 1	1,58,334 11 4	1,52,512 0 0	5,822 11 4	..
Nilgiris, The ..	Do. do.	5,339 13 3 — 2,775 2 8	66,567 10 8	69,132 5 3	67,650 0 0	1,482 5 3	..
Kollegal	Do. do.	968 5 6 — 10 9 1	43,903 3 7	44,861 0 0	44,278 0 0 ‡ 436 0 0	147 0 0	..
Coimbatore, North.	Do. do.	1,093 11 11 — 54 6 0	1,55,966 6 2	1,57,005 12 1	1,53,122 0 0	3,883 12 1	..
Do. Central.	Do. do.	13,339 11 3 — 251 0 0	90,677 3 10	1,03,765 15 1	82,700 0	21,065 15 1	..
Do. South.	Do. do.	2,363 8 5 — 353 11 5	65,460 5 9	67,470 2 9	60,666 0 0	6,804 2 9	..
Madura	Do. do.	22,921 0 11 — 1,828 8 7	2,56,004 2 5	2,77,096 10 9	2,57,510 0 0	19,586 10 9	..
Tinnevelly ..	Do. do.	25,252 2 2 — 99 8 9	1,54,435 10 11	1,79,588 4 4	1,51,807 0 0 ‡ 1,350 0 0	26,431 4 4	..
	Total ..	1,05,902 2 9 — 7,343 10 5	11,55,119 1 3	12,53,677 9 7	11,43,572 13 2	1,10,104 12 5	..
	Grand Total, Presidency.	4,53,409 3 8 — 8,541 5 3	40,43,246 13 2	44,88,114 11 7	41,85,320 13 2 + 344 5 0	3,02,449 9 5	..

* Collected in previous year but not adjusted towards outstanding of last year.
† Due after 30th June 1910, being outstanding amount relating to leases.
‡ Written off the accounts.

Note (*Northern Circle*).—Excludes Rs. 857, relating to Parlákimedi Maliahs.

(*a*) Due during the year. (*b*) Of this Rs. 78–12–0 were collected during July 1910. (*c*) Rs. 2,166 were collected during July 1910.
(*d*) Of this Rs. 5,045 fell due in 1910–1911 and 471 was written off. (*e*) Of this Rs. 30,960 falls due in 1910–1911. (*f*) Full amount due in 1910–1911.
(*g*) Written off in Board's Proceedings, Mis. No. 1358, dated 7th December 1909.
(*h*) Do. in Conservator's S.O. No. 170, dated 2nd April 1910.
(*i*) Do. in Board's Proceedings, Mis. No. 1017, dated 20th September 1909.
(*j*) Do. in Conservator's S.O. No. 110, dated 12th June 1910.
(*k*) Excludes Rs. 969–13–1 being value of sales and other revenue during the year in the Parlakimedi maliahs.
(*l*) Excludes Rs. 1,474–13–1 being the total value of sales, etc., in the Parlakimedi maliahs.
(*m*) Do. realized in the Parlakimedi maliahs.
(*n*) Excludes Rs. 505, being balance due to the department at the end of the year in the Parlakimedi maliahs.

Note (*Southern Circle*).—Deductions in column 3 are on account of cancellation of leases, erroneous demands and collections in the previous year omitted to be adjusted towards outstandings. Out of the total outstandings of Rs. 1,10,104–12–5, the amount actually due on or before 30th June 1910 was Rs. 26,279.

ANNUAL FORM No. 83.

Forest Department, Madras Presidency.

FINANCIAL results of the year 1909–1910.

District.	Timber and other produce removed from the forest by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	16,346	25,884	31,007	38,869	38,433	47,353	1,03,186
Parlákimedi Maliahs (Ganjám).	587	1,048	270	5,746	5,593	857	12,387
Vizagapatam	25,705	12,926	26,435	33,993	14,364	52,140	61,283
Upper Gódávari ..	18,871	13,167	46,834	29,030	25,413	65,705	67,610
Lower Do. ..	40,101	21,142	1,54,804	52,068	32,874	1,94,905	1,06,084
Kistna	48,722	29,978	67,837	22,860	39,009	1,16,559	91,847
Kurnool, East ..	47,642	61,775	52,898	61,211	72,944	1,00,540	1,95,930
Do. West ..	1,12,047	79,493	96,257	63,053	93,805	2,08,304	2,36,351
Bellary	19,264	25,792	1,56,525	61,349	1,24,156	1,75,789	2,11,297
Anantapur	22,230	15,031	1,39,603	34,399	31,017	1,61,833	80,447
Total ..	3,51,515	2,86,236	7,72,470	4,02,578	4,77,608	*11,23,985	11,66,422 + †9,328
Central Circle.							
Cuddapah, North ..	58,439	37,568	61,863	23,343	18,602	1,20,302	79,513
Do. East ..	63,407	42,099	50,487	28,654	19,930	1,13,894	90,683
Do. South ..	4,602	5,687	86,146	19,440	11,849	90,748	36,976
Nellore	1,22,825	92,289	1,64,643	26,026	50,079	2,87,468	1,68,394
Chingleput	26,315	16,130	48,105	18,327	25,851	74,420	60,308
Arcot, North	90,786	43,454	1,76,821	45,425	51,606	2,67,107	1,40,485
Do. South	99,931	28,909	1,66,538	30,631	46,282	2,66,469	1,05,822
Salem, North	65,030	61,339	1,10,755	37,322	50,388	1,75,785	1,49,049
Do. South	27,884	34,179	1,09,624	27,194	27,463	1,37,508	88,836
Trichinopoly	54,607	46,414	99,459	24,163	28,345	1,54,066	98,922
Tanjore	9,972	7,921	15,573	5,886	5,975	25,545	19,782
Guntúr	62,903	38,193	1,42,405	35,560	51,548	2,05,308	1,25,301
Total ..	6,86,701	4,54,182	12,31,919	3,21,971	3,87,918	19,18,620	11,64,071 + †15,855
Southern Circle.							
South Canara	52,862	34,237	60,990	33,787	17,953	1,13,852	85,977
North Malabar ..	17,912	19,382	39,433	58,610	26,664	57,345	1,04,656
South do.	1,41,367	34,669	11,165	2,084	1,41,894	1,52,532	1,78,647
The Nilgiris	45,808	56,280	21,862	15,610	31,117	67,870	1,03,007
Kollegal	13,116	21,986	31,182	12,131	15,803	44,298	49,920
North Coimbatore ..	88,028	41,581	65,114	28,549	26,084	1,53,142	95,214
Central do. ..	27,658	25,827	55,061	22,737	21,589	82,719	70,153
South do. ..	30,425	59,730	30,260	17,647	27,901	60,685	1,05,278
Madura	82,585	65,558	1,74,944	38,002	57,243	2,57,529	1,60,803
Tinnevelly	541	1,769	1,51,285	43,968	29,859	1,51,826	75,596
Total ..	5,00,302	3,61,019	6,41,296	2,73,125	3,95,107	11,41,598	(a) 10,29,251
Grand Total ..	15,38,518	11,01,437	26,45,685	9,97,674	12,60,633	41,84,203	33,59,744 + †25,183

* This includes Rs. 140 shown under Direction in Form No. 80, of which Rs. 116 belongs to Bellary and Rs. 24 to Direction. The latter was distributed to all districts proportionately.

† Refunds and drawbacks.

(a) Includes refunds and drawbacks.

ANNUAL FORM No. 84.

Forest Department, Madras Presidency.

STATEMENT of Elephants during 1909-1910.

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
1	2	3	4	5	6
		NORTHERN CIRCLE.			
		PART I.—*Elephants in possession of the reporting officers throughout the year.*			
Ganjám	Mahabat Pyari ..	May 1906	YRS. Not known.	RS. A. P. 752 5 3	
Vizagapatam ..	Ethel	Transferred from Southern Circle on 3rd December 1897.	51	968 4 4	
Upper Gódávari Division.	Surat Pyari ..	Purchased in November 1894 at Sonepur fair.	Not known.	922 7 10	
West Kurnool ..	Byragi Pyari ..	Do. do.	Do.	838 4 9	
		PART II.—*Elephants received in the year*—Nil.			
		PART III.—*Elephants gone off the list during the year*—Nil.			
		CENTRAL CIRCLE—*Nil.*			
		SOUTHERN CIRCLE.			
		PART I.—*Elephants in possession of the Reporting officers throughout the year.*			
	1. Peri	Captured in April 1889	YRS. 65	RS. A. P. 895 13 3	
	2. Sivaji ..	Do. February 1900 ..	40	872 10 7	
	3. Isabella ..	Do. do. 1898 ..	45	819 9 1	
	4. Phyllis ..	Purchased in January 1878 ..	65	850 2 0	
	5. Jhelum ..	Captured in June 1902	17	605 12 5	
	6. Kalyani ..	Purchased in October 1889 ..	70	789 15 0	
	7. Dosti-Jehan ..	Born to Meenakshi in February 1902.	8	516 14 4	
	8. Port Arthur ..	Captured in February 1905 ..	9	400 3 1	
	9. Togo	Do. on 19th June 1905 ..	8	469 8 1	
	10. Kuroki ..	Do. on 19th February 1905.	13	531 9 5	
	11. Agnes	Do. on 11th March 1906 ..	30	702 9 3	
	12. Hanuman ..	Do. on 21st February 1905.	18	631 7 5	
	13. Nethravathi ..	Do. do. ..	15	547 4 10	
	14. Norah ..	Do. on 11th March 1906 ..	8	479 13 2	
	15. Hector ..	Do. on 13th April 1906 ..	11	470 0 2	
	16. Helen	Do. on 12th do. ..	25	738 2 1	
	17. Borneo ..	Born to Peri on 20th January 1905	5	360 0 11	
	18. Ranger ..	Captured on 17th March 1906 ..	17	648 7 0	
	19. Maroe ..	Do. on 20th do. ..	12	535 13 9	
	20. Forester ..	Do. on 15th do. ..	11	389 14 6	
	21. Hyder Ali ..	Do. on 12th May 1906 ..	10	395 0 8	
	22. Madhavan ..	Do. do. ..	9	378 3 1	
Malabar, North ..	23. Abdul Rahiman.	Do. on 7th April 1900 ..	30	736 11 0	
	24. Emily	Do. on 23rd June 1899 ..	40	767 1 4	
	25. Meenakshi ..	Born to Chikka Lakshmi in April 1889.	21	745 4 10	
	26. Bessie	Born to Chikka Lakshmi on 3rd July 1899	11	590 8 8	
	27. Jessie	Born to Chikka Lakshmi on 21st October 1903.	7	468 11 8	
	28. Reggie ..	Captured on 11th April 1907 ..	6	250 5 3	
	29. Lassie	Do. on 19th do. ..	10	507 3 11	
	30. Hilda	Do. on 20th do. ..	24	701 9 9	
	31. Shanker ..	Do. on 21st May 1907 ..	10	443 9 11	
	32. Ganga	Do. on 20th do. ..	6	266 7 11	
	33. Elsie	Do. on 31st do. ..	24	714 0 2	
	34. Etona	Do. on 4th June 1907 ..	11	511 14 2	
	35. Janaki	Do. on 12th do. ..	7	263 7 7	
	36. Nelly	Born to Isabella on 22nd July 1907.	3	240 10 0	
	37. Rohini	Born to Meenakshi on 30th January 1908.	2	110 2 8	
	38. Kali	Captured on 27th June 1908 ..	9	404 13 0	
	39. Kapila	Do. on 29th do. ..	27	755 4 0	
	40. Joe	Do. on 11th January 1909 ..	11	472 4 0	
	41. Emperor ..	Do. on 5th March 1909 ..	13	602 9 1	
	42. Libera ..	Do. do. ..	16	548 3 8	

Statement of Elephants during 1909–1910—*cont.*

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
1	2	3	4	5	6
		SOUTHERN CIRCLE—*cont.*			
		PART I.—*Elephants in possession of the Reporting officer throughout the year*—cont.			
			YRS.	RS. A. P.	
Malabar, South..	1. Vixen	Purchased in 1878	48	834 8 0	
	2. Peyru	Transferred from Wynaad in 1882.	66	892 15 1	Original purchase or capture not traceable.
	3. Maharajan ..	Captured in April 1886	36	798 9 3	
	4. Jupiter ..	Do. in January 1887.. ..	30	828 10 1	
	5. Gordon ..	Do. in February 1889 ..	30	787 0 2	
	6. Lydia	Purchased from the Military Department in April 1903.	48	838 12 6	
	7. Nurmahal ..	Captured on 25th February 1898.	22	616 3 5	
	8. Meenakshi II..	Do. on 13th August 1904 ..	10	423 10 5	
	9. Kitty.. ..	Do. on 30th September 1903.	11	645 10 11	
	10. Loo	Do. in April 1890	23	600 8 8	
	11. George ..	Do. on 17th February 1906.	12	611 0 11	
	12. Dorothy ..	Do. on 19th March 1906 ..	9	374 1 6	
	13. Frank	Do. on 18th October 1906 ..	21	671 8 11	
	14. Donald.. ..	Do. on 27th January 1907 ..	12	377 3 0	
	15. Sirdar	Do. on 7th August 1906 ..	14	634 12 1	
	16. Doddanmeri ..	Do. on 11th October 1906 ..	8	302 10 8	
	17. Kuttiparu ..	Do. on 25th August 1907 ..	16	575 6 10	
	18. Loulie	Do. on 25th July 1907 ..	10	462 10 10	
	19. Savi . ..	Do. on 5th August 1907 ..	9	402 10 11	
	20. Kesavan ..	Do. on 11th February 1905.	19	673 14 3	
	21. Seetha	Do. on 13th September 1895.	23	740 10 0	
	22. Sutlej	Do. on 27th February 1902.	23	837 4 10	
The Nilgiris ..	1. Chikka Lakshmi.	Transferred from the Anamalais on 30th January 1882.	63	747 2 8	Original purchase or capture not traceable.
	2. Ravi	Captured on 3rd March 1902 ..	24	725 3 7	
	3. Jempyaree ..	Purchased from the Military Department in March 1903.	35	754 11 10	
Coimbatore, South.	1. Lala Meah ..	Captured on 9th March 1891 ..	29	845 0 0	
	2. Akbar Baksh ..	Born on 22nd February 1888 ..	22	622 8 6	
	3. Zehara ..	Captured on 14th March 1896 ..	26	780 5 4	
	4. Kunjunni ..	Do. on 16th March 1897 ..	19	642 4 11	
	5. Bakhto ..	Do. on 6th April 1900 ..	20	669 0 3	
	6. Eva	Do. in 1884	35	583 0 11	
	7. Hercules ..	Do. in December 1890 ..	30	614 15 1	
	8. Bob ..	Do. on 14th August 1904 ..	19	595 14 6	Ages reestimated.
	9. Phyllis II ..	Do. on 12th August 1904 ..	13	546 7 6	Ages reestimated.
	10. Marudu ..	Do. on 14th August 1904 ..	16	530 7 8	
	11. Juno	Do. in February 1886 ..	32	654 10 9	

Statement of Elephants during 1909-1910—*cont.*

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
1	2	3	4	5	6
	SOUTHERN CIRCLE—*cont.*				
	PART II.—*Elephants received in the year.*				
			YRS.	RS. A. P.	
Malabar, North.	1. Sultan	Captured on 11th January 1910.	2	80 4 3	
	2. Czarina	Captured on 30th January 1910.	28	124 2 11	
	3. Rutna	Do. do.	2½	72 8 5	
	4. Rani I	Do. do.	20	..	
	5. Tippu	Captured on 1st February 1910.	12	124 2 2	
	6. Nurjehan	Captured on 12th February 1910.	65	110 15 9	
	7. Cæsar	Do. do.	7	120 4 6	
	8. Empress	Captured on 19th February 1910.	22	105 13 4	
	9. Victoria	Born to Czarina on 7th February 1910.	..	..	
	10. Rani II	Captured on 18th April 1910.	20	52 12 6	
	11. Countess	Do. on 5th June 1910 ..	20	15 9 7	
	12. Venus	Do. do. ..	1½	9 2 8	
	13. Queen	Do. do. ..	½	9 2 8	
	14. Moideenkhan ..	Captured on 3rd January 1896.	31	327 5 3	
	15. Padmini	Captured on 10th February 1896.	41	317 6 6	
	16. Chamundi	Captured on 4th February 1900.	25	323 15 3	
	17. Samson	Purchased in 1885 for Rs. 350.	38	371 5 1	
	18. Theebaw	Captured in January 1886 ..	26	253 8 10	
				+ 25 14 5*	* Lent to the District Forest Officer, the Nilgris, from 1st April 1910 to 25th April 1910 for elephant-capturing operations.
Malabar, South.	1. Tajmahal	Captured on 26th January 1910.	19	153 8 6	
Coimbatore, South.	1. Claudia	Captured on 22nd November 1909.	3	175 9 4	
	PART III.—*Elephants gone off the list during the year.*				
Malabar, North.	1. Charlie	Captured on 11th March 1906.	7	69 13 9	Sold on 19th September 1909.
	2. Morris	Do. do.	8	69 15 7	Do. do.
	3. Henry	Do. on 13th March 1906.	8	103 12 2	Do. do.
	4. Ruby	Do. on 21st February 1906.	6	70 5 11	Do. do.
	5. John	Captured on 28th April 1907 ..	10	59 0 2	Sold in September 1909.
	6. Rani I	Captured on 30th January 1910.	20	..	Died on 12th March 1910.
	7. Victoria	Born to Czarina on 7th February 1910.	..	..	Died on 22nd February 1910.
Malabar, South.	1. Samson	Purchased from Mr. Morgan in 1885.	38	394 2 6	Transferred to North Malabar on 22nd November 1909.
	2. Theebaw	Captured in January 1886 ..	26	375 3 9	
	3. Bhagavathi	Captured in June 1904 ..	13	395 13 0	Shot accidentally on 9th November 1909.
The Nilgiris.	1. Mohidinkhan	Captured on 3rd January 1896.	31	402 15 5	Transferred to North Malabar on 11th December 1909.
	2. Padmini	Captured on 10th February 1896.	41	390 3 2	
	3. Chamundi	Captured on 4th February 1900.	25	364 5 4	
Coimbatore, South.	1. Parvathi	Purchased in 1888	68	319 15 7	Presented to the Madras Corporation on 12th January 1910.

ANNUAL

Forest Department,

ABSTRACT showing the Value of Live-stock,

Districts.	Survey, etc., instruments.				Tools			
	On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1	2	3	4	5	6	7	8	9
Northern Circle.		Rs.		Rs.		Rs.		Rs.
Direction	62	447	62	413	428	461	428	333
Ganjám	89	786	(*b*) 105	(*b*) 753	659	464	(*c*) 1,100	(*c*) 1,962
Vizagapatam	38	460	38	445	605	202	571	134
Gódávari, Upper	43	458	42	456	939	1,415	1,076	2,325
Do. Lower	91	875	103	892	802	2,641	848	2,778
Kistna	55	801	68	837	265	2,207	820	2,128
Kurnool, East	117	939	142	1,596	1,858	2,147	2,905	2,842
Do. West	117	633	125	600	1,529	1,477	1,684	1,497
Bellary	62	1,172	92	1,568	*1,077	*1,709	1,448	1,981
Anantapur	86	2,093	256	2,543	643	850	793	909
Total ..	760	8,664	1,033	10,103	8,805	13,573	11,173	16,889
Central Circle.								
Direction	56	900	56	870	6	6	6	6
Cuddapah, North	43	251	76	1,108	279	1,372	64	92
Do. East	97	534	104	450	284	963	322	841
Do. South	18	156	18	133	157	412	169	500
Nellore	124	905	182	1,122	1,247	5,841	1,328 / lb. 48	5,765
Chingleput	48	367	48	367	859	4,714	878	4,184
North Arcot	178	1,078	177	1,053	2,371 / cwt. 33	5,968	2,430 / cwt. 33	6,143
South do.	88	514	90	454	115	536	250	784
North Salem	130	1,001	132	833	1,680	4,172	1,692	3,868
South do.	102	816	97	753	1,130	1,783	942	1,718
Trichinopoly	100	984	106	1,112	756	379	752	457
Tanjore	29	107	29	104	162	1,552	144	1,533
Guntúr	114	2,336	121	2,267	373	464	551	932
Total ..	1,127	9,949	1,236	10,626	9,419 / cwt. 33	28,162	9,528 / lb. 48 / cwt. 33	26,818
Southern Circle.								
Direction	67	1,661	67	1,661	27	137	27	137
South Canara	209	510	211	494	431 / (*a*) — 50	710 / — 519	377	148
Malabar, North	66	485	67	649	4,058	4,993	2,023	5,334
Do. South	54	579	55	557	431	242	409	273
The Nilgiris	105	1,070	77	1,107	532	1,509	534	1,290
Kollegal	21	363	25	469	385	2,217	463	2,369
Coimbatore, North	56	756	65	795	1,100	3,244	1,045	3,777
Do. Central	45	578	57	577	11,018	3,627	7,289	2,553
Do. South	72	930	80	1,018	1,872	6,370	1,483	2,312
Madura	125	1,293	130	1,316	825	490	1,059	842
Tinnevelly	118	727	108	693	514	522	460	371
Training School	94	666	94	633	136	154	136	146
Total ..	1,032	9,618	1,036	9,969	21,279	23,696	15,305	19,552
	2,919	28,231	3,305	30,698	39,503 / Cwt. 33	65,431	36,006 / Lb. 48 / Cwt. 33	63,259

* As revised

(*a*) The difference is due to reclassification made by the Collector.
(*b*) Excludes 8 items pertaining to the Parlákimedi maliahs of the value of Rs. 100-2-0.
(*c*) Excludes 36 items pertaining to the Parlákimedi maliahs of the value of Rs. 41-4-0.

FORM No. 85.

Madras Presidency.

Stores, Tools and Plant for 1909–1910.

Machinery.				Furniture.				Building materials, small stores, tents, boats, etc.			
On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
10	11	12	13	14	15	16	17	18	19	20	21
	RS.		RS.		RS.		RS.		RS.		RS.
..	..	2	410	163	880	175	874	19	707	18	646
..	..	..	..	424	2,095	(d) 536	(d)3,401	..	..	(e) ..	(e) ..
..	..	..	..	245	835	286	872	108	1,566	120	1,047
..	..	..	..	270	1,165	398	1,381	10	900	10	1,055
2	4,600	2	4,600	649	2,517	707	2,747	26	1,658	28	2,346
..	..	..	..	192	663	224	805	3	1,039	3	987
23	673	22	800	251	960	290	1,830	16	1,579	29	2,414
21	2,049	21	1,930	2,204	2,537	2,208	2,365	35	1,427	26	1,232
3	844	4	791	*83	* 472	187	1,526	6	*150	14	1,069
..	..	..	..	431	1,928	465	1,980	5	710	9	693
49	8,166	51	8,531	4,912	14,052	5,476	17,781	228	9,736	257	11,489
..	..	..	..	161	592	161	570	12	908	12	830
..	..	269	2,213	127	809	212	1,297	10	929	15	1,323
2	54	3	70	201	1,072	218	1,135	10	716	16	1,137
..	..	..	..	113	738	125	824	7	660	10	881
11,056 M. F. C. L. 13 2 7 55	30,417	15,696 M. F. C. L. 13 2 7 55	33,439	327	1,821	348	1,713	11	810	10	565
..	..	..	..	330	1,312	337	1,324	9	800	9	800
26	385	26	385	886	2,520	893	2,572	17	1,739	17	1,739
26	1,638	28	2,363	270	1,300	352	1,719	17	1,126	19	1,234
..	..	5	760	362	1,907	459	2,453	393	1,275	408	1,479
16	2,239	16	2,100	443	2,501	447	2,537	19	1,832	16	1,759
..	..	..	..	377	1,615	381	1,692	15	779	15	696
..	..	..	..	132	568	135	583	2	200	2	190
..	..	..	..	309	1,924	321	1,788	9	3,516	9	3,763
11,126 M.F. C. L. 13 2 7 55	34,733	16,043 M. P. C. L. 13 2 7 55	41,330	4,038	18,680	4,389	20,207	531	15,290	558	16,396
3	1,016	3	972	257	1,660	258	1,789	9	530	9	504
.. (a) + 19	.. 3,018	19	2,717	341	1,522	344	1,497	14	921	15	1,004
..	..	..	..	196	663	236	1,083	4	294	4	284
1	15	1	15	176	1,185	186	1,217	4	128	3	113
5	795	6	1,493	358	2,446	323	2,943	7	720	7	640
..	..	..	..	105	534	136	908	28	596	32	1,275
..	..	2	418	279	1,165	312	1,491	88	1,746	112	2,065
..	..	..	..	212	752	244	700	7	654	8	670
12,776	16,333	13,109	16,819	374	1,548	369	2,207	9	749	10	940
9	743	13	736	630	2,255	779	2,552	1,305	1,621	1,216	1,630
..	..	..	..	351 (b) + 1	1,165	345	913	12	707	12	623
..	..	..	..	71	551	71	523	12	1,348	12	1,281
12,813	21,920	13,153	23,170	3,350	15,446	3,603	17,823	1,499	10,014	1,440	11,029
23,988	64,819	29,247 M.F.C.L. 13 2 7 55	73,031	12,300	48,178	13,468	55,811	2,258	35,040	2,255	38,914

by the Collector.

(a) Added to opening balance by the Collector.
(d) Excludes 31 items pertaining to the Parlákimedi maliahs of the value of Rs. 123-2-0.
(e) Excludes 6 tents and 107 uniforms pertaining to the Parlákimedi maliahs of the value of Rs. 575 and 80 respectively.

Abstract showing the Value of Live-stock,

Districts.	Buildings				Live-stock			
	On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
	22	23	24	25	26	27	28	29
Northern Circle—cont.		Rs.		Rs.		Rs.		Rs.
Direction	..	..	..	..	2	90	2	80
Ganjám	62	22,733	73	32,278	..	..	4	67
Vizagapatam	54	5,902	57	7,159	1	Not known.	1	Not known
Gódávari, Upper	69	26,765	69	25,956	1	900	1	900
Do. Lower	114	20,568	135	27,331	..	..	..	..
Kistna	51	6,707	51	6,051	..	..	..	..
Kurnool, East	21	15,954	32	21,239	22	1,220	20	400
Do. West	89	56,764	87	46,772	1	1,600	1	1,600
Bellary	* 35	* 19,312	43	23,669	65	* 870	46	529
Anantapur	30	34,123	31	32,123	..	..	..	..
Total ..	525	2,08,918	578	2,22,578	92	4,680	75	3,576
Central Circle—cont.								
Direction	..	..	..	..	..	..	..	..
Cuddapah, North	48	3,687	53	10,339	..	..	..	..
Do. East	63	12,458	69	13,137	8	355	10	587
Do. South	16	5,041	15	4,503	2	40	2	35
Nellore	17	16,590	19	18,599	..	..	..	..
Chingleput	61	9,656	61	10,216	..	..	..	..
North Arcot	97	31,023	97	32,056	14	566	13	542
South do.	51	19,971	65	26,569	10	666	6	480
North Salem	43	19,580	50	20,450	28	1,100	66	3,300
South do.	33	12,600	53	19,527	..	..	..	..
Trichinopoly	17	2,666	17	2,568	..	..	..	..
Tanjore	7	381	8	2,381	..	..	..	..
Guntúr	59	8,844	62	8,507	..	..	..	..
Total ..	512	1,42,797	569	1,68,852	62	2,727	97	4,944
Southern Circle—cont.								
Direction	1	101	1	96	..	..	..	..
South Canara	57	24,022	57	25,377	64	2,908 (b) + 915	59	3,348
Malabar, North	59	24,866	62	36,627	112	76,044	130	1,07,079
Do. South	44	40,204	44	40,500	45	39,541	57	33,562
The Nilgiris	73	19,866	75	26,113	46	11,080	28	4,999
Kollegal	20	6,251	22	8,028	48	3,360	12	840
Coimbatore, North	53	24,031	54	28,406	..	..	..	..
Do. Central	47	9,514	41	9,519	..	..	..	..
Do. South	52	17,944	56	19,604	48	33,315	59	35,900
Madura	87	50,502	94	55,846	8	452	8	464
Tinnevelly	73	36,028	74	39,079	..	..	..	..
Training School	..	..	..	..	..	..	..	..
Total ..	566	2,53,329	580	2,89,195	371	1,67,615	353	1,66,192
Grand Total ..	1,603	6,05,044	1,727	6,80,625	525	1,75,022	525	1,94,712

* As revised

(*a*) The differences are due to reclassification made by the Collector.

Stores, Tools and Plant for 1909–1910—*cont.*

Miscellaneous.				Total.					
On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.		Difference in value.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
30	31	32	33	34	35	36	37	38	39
	Rs.		Rs.		Rs.		Rs.	Rs.	Rs.
9	53	8	48	683	2,638	695	2,804	166	..
..	..	..	..	1,234	26,078	1,818	38,461	12,383	..
313	333	281	264	1,364	9,388	1,354	9,921	533	..
196	2,129	213	5,942	1,528	33,732	1,809	38,015	4,283	..
490	42,132	616	45,223	2,174	74,991	2,439	85,917	10,926	..
8	2,909	8	2,588	574	14,326	674	13,396	..	930
1,513	93	655	1,470	3,821	23,565	4,095	32,591	9,026	..
644	2,869	630	2,746	4,640	69,356	4,782	58,742		10,614
..	..	..	..	1,331	24,529	1,834	31,133	6,604	..
..	..	..	..	1,195	39,704	1,554	38,248	..	1,456
3,173	50,518	2,411	58,281	18,544	3,18,307	21,054	3,49,228	30,921	..
605	621	556	659	840	3,027	791	2,935	..	92
213	322	812	577	720	7,370	1,501	16,949	9,579	..
212	484	198	363	877	16,637	940	17,720	1,083	..
110	377	105	342	423	7,424	444	7,218	..	206
670	5,600	733	5,371	13,452 M. F. C. L. 13 2 7 55	61,984	18,316 M. F. C. L. 13 2 7 55 lb. 48	66,574	4,590	..
..	..	..	..	1,307	16,849	1,333	16,891	42	..
..	..	9	9	3,589 cwt. 33	43,579	3,662 cwt. 33	44,499	920	..
1,148	976	1,115	1,215	1,725	26,727	1,925	34,818	8,091	..
933	602	952	642	3,569	29,637	3,764	33,785	4,148	..
† 1,124	411	1,062	373	2,867	22,182	2,633	28,762	6,580	..
1,532	7,326	1,534	7,785	2,797	13,749	2,805	14,310	561	..
244	195	242	176	576	3,003	560	4,967	1,964	..
..	..	..	..	864	17,084	1,064	17,257	173	..
6,791	16,914	7,318	17,512	33,606 M. F. C. L. 13 2 7 55 cwt. 33	2,69,252	39,738 M. F. C. L. 13 2 7 55 lb. 48 cwt. 33	2,06,685	37,433	..
834	1,273	1,285	1,865	1,198	6,378	1,650	7,024	646	..
702	8,683	748	5,832	1,818	39,276	1,830	40,417	226	..
(a)+31	— 2,499				+ 915				
35	2 713	35	3,074	4,530	1,10,058	2,557	1,54,130	44,072	..
576	2,999	438	2,558	1,330	84,893	1,193	78,795		6,098
112	789	132	663	1,238	38,275	1,182	39,248	973	..
649	1,340	636	647	1,256	14,661	1,326	14,536		125
885	727	875	687	2,461	31,669	2,465	37,639	5,970	..
118	126	569	728	11,447	15,251	8,208	14,747	..	504
515	3,773	967	8,164	15,718	80,962	16,133	86,964	6,002	..
4	184	4	125	2,993	57,540	3,303	63,511	5,971	..
538	1,120	606	1,275	1,606 + 1	40,269	1,605	42,954	2,685	
37	37	37	35	350	2,756	350	2,618	..	138
5,036	21,265	6,332	25,653	45,946	5,22,903	41,802	5,82,583	59,680	..
15,000	88,697	16,061	1,01,446	98,096 M. F. C. L. 13 2 7 55 cwt. 33	11,10,462	102,594 M. F. C. L. 13 2 7 55 lb. 48 cwt. 33	12,38,496	1,28,034	..

by the Collector.

(*b*) Added to opening balance by the Collector.
† Not shown in the previous return by the Collector.

ANNUAL FORM No. 86.

Forest Department; Madras Presidency, Northern Circle.

Tramway statement.

Lower Góddvari District.

Capital Account, 1908–1909.

	Dr.	Rs.	A.	P.		Cr	Rs.	A.	P.
To balance from 1907–1908		3,877	0	0	By depreciation at 6 per cent.		233	0	0
					,, balance of stock		3,644	0	0
	Total ..	3,877	0	0		Total ..	3,877	0	0

Revenue Account, 1908–1909.

	Dr.	Rs.	A.	P.		Cr.	Rs.	A.	P.
To repairs of tram lines		92	0	0	By balance written off		480	0	0
,, interest at 4 per cent.		155	0	0					
,, depreciation at 6 per cent.		233	0	0					
	Total ..	480	0	0		Total ..	480	0	0

Profit and loss statement.

Work done.

Nil.

	Rs.	A.	P.
Actual charges on account of the maintenance of the tramway	480	0	0
Estimated cost, etc.	..		
Loss ..	480	0	0

Capital Account, 1909–1910.

	Rs.	A.	P.		Rs.	A.	P.
To balance from 1908–1909	3,644	0	0	By depreciation at 6 per cent.	219	0	0
				,, balance of stock	3,425	0	0
Total ..	3,644	0	0	Total ..	3,644	0	0

Revenue Account, 1909–1910.

	Rs.	A.	P.		Rs.	A.	P.
Interest at 4 per cent.	146	0	0	By balance written off	365	0	0
Depreciation at 6 per cent.	219	0	0				
Total ..	365	0	0	Total ..	365	0	0

Profit and loss statement.

Work done.

Nil.

	Rs.	A.	P.
Actual charges on account of the maintenance of the tramway	365	0	0
Estimated cost, etc.	..		
Loss ..	365	0	0

Year.	Profit.	Loss.
	Rs.	Rs.
1905–1906	464	..
1906–1907	506	..
1907–1908	..	317
1908–1909	..	480
1909–1910	..	365
Total ..	970	1,162
Net loss ..	..	192

Tramway Statement.

Nellore District, Śrîharikôta Range.

Capital Account, 1909–1910.

—	1908–1909.	1909–1910.	—	1908–1909.	1909–1910.
Dr.	Rs.	Rs.	*Cr.*	Rs.	Rs.
To balance from previous years.	14,822	14,378	By depreciation at 6 per cent.	918	1,079
Add new stock	474	7	,, balance of stock	14,378	16,899
Omitted to be shown in the last year's district return.	..	3,593			
Total ..	15,296	17,978	Total ..	15,296	17,978

Revenue Account, 1909–1910

—	1908–1909.	1909–1910.	—	1908–1909.	1909–1910.
Dr.	Rs.	Rs.	*Cr.*	Rs.	Rs.
To working expenses	1,444	1,678	By balance written off ..	3,392	3,996
,, road-making and repairs ..	311	432			
,, interest at 4 per cent. ..	612	719			
,, depreciation at 6 per cent. ..	918	1,079			
,, repairs to wagons	107	88			
Total ..	3,392	3,996	Total ..	3,392	3,996

—	1908–1909.					1909–1910.				
	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.
				Rs.	Rs. A. P.				Rs.	Rs. A. P.
Work done	6,109⅛	3	18,327⅜	3,392	0 3 0	2,931⅜	4	11,725½	3,996	0 3 6
						602	4½	2,709		
						4,005	1	4,005		
						7,538⅜	..	18,439½		

—	1908–1909.			1909–1910.		
	Number of ton-miles.	Amount.	Rate per ton-mile.	Number of ton-miles.	Amount.	Rate per ton-mile.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Actual charge of carrying	18,327⅛	3,392	0 3 0	18,439½	3,996	0 3 6
Estimated charges by coolies.. ..		24,054	1 5 0		24,202	1 5 0

	Rs.
Net profit up to the end of 1908–1909	3,96,413
Add profit for 1909–1910	20,206
Total ..	4,16,619

Tramway Statement—*cont.*

Nellore District, Coast Range.

Capital Account, 1909-1910.

—	1908-1909.	1909-1910.	—	1908-1909.	1909-1910.
Dr.	Rs.	Rs.	*Cr.*	Rs.	Rs.
To balance from previous years ..	13,926	13,223	By depreciation at 6 per cent. ..	844	1,302
Add new stock	140	4,887	,, balance of stock	13,222	20,401
Omitted to be shown in the last year's district return.	..	3,593			
Total ..	14,066	21,703	Total ..	14,066	21,703

Revenue Account, 1909-1910.

—	1908-1909.	1909-1910.	—	1908-1909.	1909-1910.
Dr.	Rs.	Rs.	*Cr.*	Rs.	Rs.
To working expenses	452	194	By balance written off	2,103	2,617
,, road-making	225	249			
,, interest at 4 per cent.	563	868			
,, depreciation at 6 per cent. ..	844	1,302			
,, repairs to wagons	19	4			
Total ..	2,103	2,617	Total ..	2,103	2,617

—	1908-1909.					1909-1910.				
	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.
				Rs.	Rs. A. P.				Rs.	Rs. A. P.
Work done. Dugarazpatam ..	4,416	1½	6,624			936	⅔	702		
Kottapatam ..	1,610	2½	4,025			6,177	2⅔	16,214⅔		
Kottapatam Reserved Forest.	..	..	..	2,103	0 1 8	492	1⅜	676½	2,617	0 2 2
Tamminapatam ..	3,640	1¼	4,550			527	1⅓	790½		
Varini	2,317	2	4,634			906	⅔	679½		
	11,983	..	19,833			9,038	..	19,063⅓		

—	1908-1909.			1909-1910.		
	Number of ton-miles.	Amount.	Rate per ton-mile.	Number of ton-miles.	Amount.	Rate per ton-mile.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Actual charge for carrying	19,833	2,103	0 1 8	19,063⅓	2,617	0 2 2
Estimated charges by coolies ..		26,031	1 5 0		25,020	1 5 0

	Rs.
Net profit up to the end of 1908-1909	2,64,834
Add for 1909-1910	22,403
Net profit ..	2,87,237

Forest Department, Madras Presidency, Southern Circle.

Tramway Statement.

South Coimbatore District.

Capital Account, 1908–1909.

Dr.	Rs.	A.	P.	*Cr.*	Rs.	A.	P.
To balance brought forward from 1907–1908.	35,372	7	4	By depreciation at 6 per cent.	2,122	5	1
,, repairs to tram trucks	267	6	9	,, balance stock	33,517	9	0
Total ..	35,639	14	1	Total ..	35,639	14	1

Revenue Account, 1908–1909.

Dr.	Rs.	A.	P.	*Cr.*	Rs.	A.	P.
To working expenses (hired bulls) ..	203	4	1	By balance written off	9,208	8	11
,, depreciation at 6 per cent.	2,122	5	1				
,, interest at 4 per cent.	1,425	9	7				
,, repairs to tram line	221	7	0				
,, cost of feed and keep of bulls employed in tramming.	5,022	10	7				
,, pay of permanent way Inspector ..	213	4	7				
Total ..	9,208	8	11	Total ..	9,208	8	11

Profit and loss statement.

Work done.

	Ton-miles.
578$\frac{6}{20}$ tons (23,126 c.ft.) of timber moved over from Peruvarai to top-slip, 5$\frac{3}{4}$ miles	3,324
408$\frac{3}{20}$,, (16,351 ,,) of timber moved over from Peruvarai to workshop, 3$\frac{3}{4}$ miles	1,533
251$\frac{1}{2}$,, (10,060 ,,) of timber moved over from workshop to top-slip, 3$\frac{3}{4}$ miles	943
3,816 spokes and 1,836 felloes (896 c.ft.) from Sungam to top-slip, 5 miles	112
Total ..	5,912

	Rs.	A.	P.	Rs.	A.	P.
Actual charges for carrying 5,912 ton-miles at Rs. 1-8-11 per ton-mile. ..				9,208	8	11
Estimated cost by carts 5,912 ton-miles at Re. 1-0-8 per ton-mile ..	6,158	5	4			
Actual cost of maintaining cart-road before the construction of tramway (now saved)	1,200	0	0			
Cost of extension of road beyond Sungam (now saved)	310	0	0			
				7,668	5	4
Loss ..				1,540	3	7

Capital Account, 1909–1910.

Dr.	Rs.	A.	P.	*Cr.*	Rs.	A.	P.
To balance brought forward	33,517	9	0	By depreciation at 6 per cent.	2,146	11	4
,, repairs to tram trucks	32	0	0	,, balance stock	33,631	11	10
,, cost of diversion of tram line near Perniarikulam.	186	6	0				
,, cost of spare materials purchased ..	277	2	6				
,, cost of Bogie wheels, axles, etc. ..	1,465	13	8				
,, construction of branch tram line from Puliadi to compartment XVI.	299	8	0				
Total ..	35,778	7	2	Total ..	35,778	7	2

Revenue Account, 1909–1910.

Dr.	Rs.	A.	P.	*Cr.*	Rs.	A.	P.
To working expenses (hired bulls) ..	316	3	3	By balance written off	6,739	9	1
,, depreciation at 6 per cent.	2,146	11	4				
,, repairs to tram line	106	0	6				
,, cost of feed and keep of bulls employed in tramming.	2,415	7	9				
,, pay of permanent way Inspector ..	324	0	0				
,, interest at 4 per cent.	1,431	2	3				
Total ..	6,739	9	1	Total ..	6,739	9	1

Profit and loss statement.

Work done.

		TON-MILES.
367 1/20 tons (14,702 c.ft.)	of timber moved over from Peruvarai to top slip, 5 3/4 miles	2,113
155 1/40 ,, (6,213 ,,)	of timber moved over from Puliadi to top-slip, 4 miles	621
17 1/2 ,, (700 ,,)	of timber moved over from workshop to top slip, 3 3/4 miles	66
76 1/20 ,, (3,042 ,,)	of timber moved over from Sungam to top slip, 5 miles	380
120 3/5 ,, (4,824 ,,)	of timber moved over from compartment XVI to top slip, 4 miles ..	482
872 felloes and 1,796 spokes (635 c.ft.)	of timber moved over from Anaipadi to top slip 4 miles ..	63
140 trucks carrying saw mill materials from workshop.		
54 Do. do.	rails received from England from top slip to Puliadi	
	Total ..	3,725

	RS.	A.	P.	RS.	A.	P.
Actual charges for carrying 3,725 ton-miles and 194 trucks of materials	..			6,739	9	1
Estimated cost by carts for 3,725 ton-miles at Rs. 1-0-8 per ton-mile	3,880	3	4			
Do. do. 194 trucks of materials, etc.	400	0	0			
Actual cost of maintaining cart-road before the construction of tramway (now saved)	1,200	0	0			
Cost of extension of road beyond Sungam (now saved)	310	0	0			
				5,790	3	4
Loss ..				949	5	9

	Loss.		
	RS.	A.	P.
1890–1891	3,048	9	5
1891–1892	4,710	13	9
1892–1893	4,718	4	5
1893–1894	2,392	3	5
1894–1895	1,742	12	11
1895–1896	1,236	3	1
1896–1897	777	9	8
1897–1898	64	0	6
1898–1899	2,608	3	6
1899–1900	629	11	3
1900–1901	1,713	12	0
1901–1902	1,850	6	10
1902–1903	2,114	3	7
1903–1904	206	15	11
1904–1905	98	1	6
1905–1906	92	0	7
1906–1907	226	15	5
1907–1908	650	4	0
1908–1909	1,540	3	7
1909–1910	949	5	9

N.B.—The rate paid for carting from Sungam to Venthamudi, a distance of 6 miles, prior to the construction of the tramway, was Rs. 2 per candy of 12½ c.ft. This comes to As. 5–1 or slightly more than 5 pies per cubic foot per mile or Rs. 1-0-8 per ton-mile, a ton being taken as equivalent to 40 c.ft. Hence the estimated cost by carts has been calculated at the rate of Rs. 1-0-8 per ton-mile.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following paper :—

Proceedings of the Board of Revenue (Land Revenue), Forest No. 274, dated 23rd November 1910.

The Hon'ble Mr. W. O. HORNE.

The Board begs to submit to Government the progress report of Forest Administration in the Madras Presidency for the year ending with 30th June 1910.

CONSTITUTION OF STATE FORESTS.

2. *Alteration in area.*—During the year, the area of reserved forests rose from 18,694 square miles to 18,769 square miles, while that of reserved lands fell from 876 square miles to 843 square miles, the net result being an increase of 42 square miles in the total area of forests under the control of the Forest Department. This increase is nominal, being mostly due to the adoption of Survey of India figures in Kollegal and North Coimbatore, and to recomputation of areas in West Kurnool and Trichinopoly. The above figures do not include the 540 square miles of reserved forests in the Nugur taluk which were transferred during the year from the Central Provinces to the Upper Gódávari Division. This area was reserved under the Indian Forest Act, but the effect of Regulation I of 1909 is to withdraw the Indian Forest Act from the transferred taluk. There is therefore no legal authority for treating the areas as reserves under the Madras Forest Act, and they must be reserved afresh under the latter Act. There are proposals to take up further areas for reservation in Kistna, Anantapur, Tanjore and Trichinopoly, and probably also on the slopes and plateau of the Kollimalais in the Námakkal taluk, but the proposals have not yet been thoroughly examined. The examination of areas in the Parlákimedi Maliahs in the Ganjám district, with a view to the restriction of podu cultivation and the formation of regular reserves in order to protect sources of water-supply, is being carried out by the Special Officer appointed for the purpose. In the Parlákimedi Maliahs proper, two blocks of eight square miles have been demarcated and notified as reserved lands, and they have also been surveyed roughly. In the Chandragiri Agency, where the forests on the plateau above the ghats, together with the slopes below, form one natural block, the main boundary has been laid down and the lands of the villages forming enclosures, except one, have been demarcated. The Special Officer appointed to carry out forest settlement in Chokkapad could not take up the work until the forests had been surveyed. The selection and demarcation of these forests was completed by the end of the year, but the survey cannot be undertaken till the rains are over.

3. *Forest settlement.*—As in the previous year, the work was carried out by the Revenue Divisional Officers. Only ten square miles were finally notified under section 16 of the Forest Act during the year. It will be seen from Appendix C that out of 529 square miles notified under section 4 of the Forest Act, forests covering 23 square miles were reserved under section 16 after the close of the year, and the settlement of 469 square miles had been practically completed, leaving 37 square miles still to be settled. It has been found that the original settlement of some of the reserves in Madura and Coimbatore is inaccurate and defective, and a Special Deputy Collector has been appointed in each of these districts to examine the boundaries and enclosures and submit revised notifications.

4. *Demarcation.*—The total length of boundaries at the close of the year 1909–1910 was 37,654 miles (or 27 miles greater than in 1908–1909), of which 1,775 miles do not require artificial marks. 644 miles were newly demarcated during the year against 320 miles in the preceding year. The length of boundaries which remained to be demarcated at the end of the year 1909–1910 was 1,020 miles against 571 miles in the preceding year. The increase appears to be due to the fact that in Madura the demarcation of about 600 miles imperfectly demarcated in previous years was taken in hand again. The average cost of new demarcation fell from Rs. 49–13–6 to 23–12–2 per mile. The cost decreased in all the three circles. The total length of boundaries repaired was 1,661 miles greater than in the previous year, but the work is still behindhand in Kistna, East Kurnool, West Kurnool, Bellary, Anantapur, South Arcot, Guntur, South Canara, North Malabar, the Nilgiris, and North and Central Coimbatore. In reviewing the Circle reports, the Board has impressed upon Collectors the importance of maintaining the boundaries of reserved forests in good order.

5. *Surveys.*—The Survey of India Parties Nos. 7 and 8 surveyed an area of 147 square miles of forests on the 2″ scale in the districts of South Canara, the Nilgiris and Central Coimbatore. As this survey forms part of their regular programme, its cost will be borne by the Survey of India. No work was done by either of these Parties in the Northern or Central Circles. No departmental surveys of importance were made in any of the three cirles. The departmental surveyors were as usual employed on miscellaneous work such as mapping reserves and coupes, tracing roads, surveying fire lines, etc. Out of 18,769 square miles of reserved forests, 17,471 square miles are shown as having been finally mapped, but in many cases in the Southern Circle, settlement maps appear to have been treated as final maps. The Conservator has called for detailed information on the subject.

Management of Forests—(1) Regulation of Management.

6. *Working-plans.*—Working-plans for an area of 847 square miles (all in the Central Circle) were sanctioned during the year, bringing the total area for which regular working plans have been prepared up to 7,893 square miles, out of a total forest area of 19,612 square miles. Plans for 1,849 square miles in the Central Circle, 1,007 square miles in the Northern Circle and 13 square miles in the Southern Circle were under preparation. The Board has already observed in reviewing the Circle reports that the slow progress in preparing plans is regrettable but also inevitable owing to the undermanned condition of the department. The proper preparation of a working-plan demands a full-time officer, and when there are not enough officers even to man the District charges, there is no hope of deputing any for this important work. Plans have yet to be prepared for large areas in East Kurnool, East and South Cuddapah, Guntúr, the Nilgiris, Kollegal, North Coimbatore and South Coimbatore. The prescriptions of the working-plans were generally adhered to and the deviations from them are satisfactorily explained in the Circle reports.

(2) Communications and Buildings.

7. The expenditure on new roads and paths was Rs. 52,902 against Rs. 42,630 in the preceding year. There was an increase in all the three Circles, mainly in the districts of Ganjám, East Kurnool, North Salem, South Coimbatore and Tinnevelly. It is satisfactory that the important subject of opening up the forests and thus rendering it possible to work areas otherwise inaccessible is receiving adequate attention. The amount spent on the maintenance of roads and paths was Rs. 33,903 against Rs. 39,232 in the preceding year.

8. Expenditure on the construction of new buildings rose from Rs. 94,661 to Rs. 1,20,893, which is also satisfactory. The districts of East Kurnool, North Salem, the Nilgiris and South Coimbatore contributed most to the increase. The expenditure on maintaining buildings rose by Rs. 2,661. The increase occurred in the Northern and Central Circles. The total expenditure on communications and buildings was 2½ lakhs out of a gross revenue of nearly 42 lakhs. More money could profitably be spent under these heads if the establishment were strengthened. It is possible to do a certain amount by means of temporary establishment, but the agency is less reliable and the work less satisfactory than it would be

if permanent hands were available. The Mono-rail in Lower Godávari did not work during the year, as the contractor for the Bandamurlanka plantation used other means of conveyance. The Nellore tramway worked at a profit and that in South Coimbatore at a loss. The latter, however, enabled work to be done which would have been impossible without it, and, taking into consideration the money which would in its absence have been spent on roads, etc., it is not really an unprofitable investment. Plans and estimates called for by Government for the construction of a tramway in Wynaad have not been submitted. It has been proposed instead to buy a road train and to run it on the existing roads. This scheme is under investigation.

9. *Miscellaneous works.*—The expenditure under this head was Rs. 17,324 or Rs. 7,261 more than in the preceding year. The works done included wells, fences, and walls for reserves and depots, the clearing of compounds, repairs to water channels and the improvement of river-beds.

(3) Protection of Forests.

10. *General protection.*—The offences detected during the year are classified in the following table :—

—	Injury to forests by fire.		Unauthorized felling and removal of forest produce.		Unauthorized grazing.		Other offences.		Total.		Average of 1906-1907 to 1908-1909.
	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	
1. Cases taken into Court	77	67	3,434	3,009	1,697	1,444	353	341	5,561	4,861	5,439
2. Cases compounded.	37	39	10,790	11,556	6,443	6,630	784	615	18,054	18,840	17,331
3. Cases undetected ..	491	842	582	287	734	423	48	24	1,855	1,576	1,585
Total ..	605	948	14,806	14,852	8,874	8,497	1,185	980	25,470	25,277	24,355

It will be seen that the total number of offences reported is 193 less than the figure for the preceding year, and 922 more than the average for the preceding three years. It is certain that the number of offences (especially grazing offences) reported bears little relation to the number actually committed; comment on these figures is therefore of little profit. Moreover, it is reported that in some districts, offences relating to unreserved lands which were dealt with by the Revenue Divisional Officers were not included in the returns. 61 per cent. of the total number of reported cases occurred in the Central Circle, where also the largest number of offences was reported under the head "Injury to forests by fire". As usual, offenders responsible for the majority of the forest fires were not detected. Detection was extremely poor in Lower Gódávari, East Cuddapah, North Arcot, South Salem, South Canara and Tinnevelly. The number of cases disposed of by the Courts was 4,571 against 5,294 in the preceding year. Convictions were obtained in 3,995 cases or 87 per cent. The percentage of cases in which the offenders were convicted was the same as in the previous year. The number of cases compounded was 17,251 against 16,627 in the previous year. The average compounding fee during the year was Rs. 8-15-9 against Rs. 9-14-3 in the previous year. Government have ordered that, as a rule, important cases should not be compounded. The Board trusts that the District Forest Officers will strictly observe this principle. It may be observed that offences cannot be prevented unless the Courts inflict deterrent punishments on the offenders, which is by no means always the case. In a case in South Salem relating to the illicit grazing of 324 goats and 246 sheep in a reserved forest, the Head quarter Deputy Magistrate imposed fines of Rs. 500 on one of the accused and Rs. 50 on the other which sentence was upheld on appeal by the Sessions Judge. Unfortunately the High Court to whom the first accused presented a revision petition reduced the fine to Rs. 250, which is only a fraction of the maximum compounding fees leviable under the rules prescribed in Government Order, No. 1990, Revenue, dated 13th June 1910. The Board thinks it worth considering whether rewards might not,

with advantage, be granted regularly to forest subordinates for the detection of offences as they are to Abkari Officers. The forest guard has much to gain by conniving at breaches of the Forest law, and little to gain by doing his duty.

11. *Protection from fire.*—Except in Cuddapah, the methods employed to protect the forests from fire were the same as were adopted in previous years, namely, the fire tracing of boundaries, the clearing of internal fire lines and the maintenance of fire patrols to keep the lines clear and to extinguish fires. In Cuddapah, the system of burning a large area of forest in strips of varying width in order to secure the protection of the remainder was continued, but there are very few areas to which this system is at all applicable. In parts of the Northern Circle, the protection of portions of the forests from fire was entrusted to hillmen who were paid by results. In the East and West Kurnool Divisions, the system of grubbing out stumps was continued. The total area of which "special protection" was attempted was 4,465 square miles against 4,079 square miles in the previous year. Of this area, 3,948 square miles were successfully protected against 3,841 square miles in the preceding year. The percentage of failure rose from 5·83 to 11·58, but the average cost per square mile successfully protected was nearly the same, viz., Rs. 21–8–1 against 21–12–0 in the preceding year. The results were less favourable than in 1907–1908 in all the three Circles, but cannot be regarded as unsatisfactory considering the extreme and unusual dryness of the season. In addition to the area under special protection, the ordinary staff attempted to protect 5,712 square miles, of which 5,306 square miles are shown as successfully protected. The Board is not, however, disposed to regard these latter figures as reliable.

12. The number of fires during the year, as given in the Conservators' reports and arranged according to their causes, are compared below with the figures for the previous year :—

	1908–1909.		1909–1910.	
	Number.	Acres.	Number.	Acres.
Fires originating in departmental fire conservancy operations ..	84	5,562	87	27,049
Fires crossing the exterior fire lines	71	11,209	167	190,285
Fires due to carelessness or accident	213	23,913	355	45,733
Fires originating from intention or malice	151	31,609	352	243,114
Fires due to unknown causes	255	50,787	694	412,293
Total ..	774	123,080	1,655	918,474

The number of fires and the area burnt were both much larger than in the previous year, the inevitable result of the general failure of the late rains. The number of fires due to intention or malice and to unknown causes increased in all the three circles. During his tour in Kurnool, the Forest Commissioner ascertained that it is common to fire the forests in order to turn out game or to reduce cover for shikar purposes. Where this is done and where it is known that areas were burnt to obtain new grass, the closure of the areas concerned to grazing should act as a deterrent and if, promptly enforced, no doubt does so. The Chenchus were still responsible for many deliberate fires in the Nallamalais. It will take a long time to wean these very backward people from their evil practices, but visible progress is being made in civilizing them and the present policy of the department towards them must be persevered in. Mr. H. F. A. Wood did most commendable work in this direction

13. *Protection from cattle.*—Out of a total forest area of 19,612 square miles, 2,388 square miles were closed to grazing to all animals throughout the year; only 789 square miles were open to goats. As in the previous year, goats were admitted to reserves only in Kistna, Bellary, Cuddapah, Nellore, North Arcot, North Salem, Guntur and Madura. The total number of animals admitted to grazing on payment was 40,40,692 or 34,000 less than the number reported in 1908–1909. The number of bulls, cows and sheep decreased, but that of buffaloes and goats increased. The increase in the number of goats was large and occurred in all the three Circles. This is regrettable. The Collectors have been reminded that the principles governing the admission of goats to reserves are those laid down in Government Order

No. 1863, dated 25th July 1907, namely, that as much should be done for goats as is possible consistently with other interests, and that they should only be admitted into reserves where the unreserved area is not sufficient to provide browsing for a number of goats which is reasonable, in view of all the circumstances of the locality, and which is not intended to include unlimited herds belonging to professional goat-breeders and that even then goats should only be admitted to such reserves as are not specially required for the supply of timber and fuel or for the grazing of other animals. They have been instructed that, wherever there is reason to apprehend any serious results from overbrowsing, proposals should be made to obviate them before it is too late. At present, there is no restriction on the number of cattle admitted into any forest open to grazing. A preliminary scheme for distributing the grazing in Udamalpet taluk of the Coimbatore district is under consideration. Definite instructions have now been issued with a view to the limitation of the number of cattle to be admitted to graze in each grazing block, with reference to the " possibility " of the block, and it is hoped that in the course of a few years, it may be possible actually to introduce such limitation. The number of cattle impounded was 212,861 against 213,802 in the previous year. 58 per cent. of this number was impounded in the Central Circle.

14. *Protection from injury against natural causes.*—As in previous years, the most serious pests from which the forests suffered were the spike disease in sandal-wood forests in North Coimbatore and Kollegal, the fungus (*Trichosporium Vesiculosum*) in the casuarina plantations in Ganjám and Lower Gódávari, the insects *Pyrausta* and *Hyblæa* in some of the teak plantations in North and South Malabar, and caterpillars in Tinnevelly. It is satisfactory to learn that there was little trace of fungus disease in the casuarina plantations in Nellore. It is not stated whether the measures adopted in this district and elsewhere to eradicate the fungus (*Trichosporium*) were applied in the Agastinowgam plantation in Ganjám where continued damage is reported. The Conservator's attention has been drawn to the matter. The cause of the spike disease of sandal has not yet been discovered. The Board observes that its investigation is one of the subjects included in the programme of work to be carried out by the Imperial Forest Research Institute during the three years commencing with 1909–1910.

(4) Sylviculture.

15. *Natural reproduction.*—The short rainfall hampered reproduction in some districts, but on the whole reproduction was fair from seed and good from coppice. The results were of course best in localities protected from fire and closed to grazing. Little or nothing was done to encourage teak regeneration in North Malabar, owing to changes of District Forest Officers and to one District Forest Officer having charge of both the divisions. It is satisfactory to learn that even rocky parts of some fenced reserves in Bellary are fast being covered, though only with a scrubby growth.

16. *Artificial reproduction.*—1,676 acres (including areas under *taungya* operations) were added to the plantations and 686 acres excluded leaving a net increase of 990 acres during the year. The total expenditure on the creation and maintenance of the plantations including the *taungya* areas up to the end of the year was Rs. 21,43,123, while the revenue realised by the department from them was Rs. 25,05,547. The above figures do not include those for Tanjore which are said not to be known. Cultural operations were undertaken chiefly for the purpose of regenerating felled coupes and poorly-stocked areas and in some districts for the supply of manure leaves. Such operations were conducted, on a large scale in Bellary, Anantapur and Chingleput, but the results were not satisfactory owing to the failure of the rains. It is gratifying to learn that in North Coimbatore 5,187 acres were sown with sandal, rosewood and vengai seeds, free of cost by the subordinates and by the students of the Tamil Vernacular Training school. Out of Rs. 43,915 spent during the year under this head, Rs. 34,678 was in the Northern Circle. The Board has already expressed its opinion that it is a mistake to encourage the demand for manure leaves or to hold out any hope that the Forest Department can meet it, since neither the regular forests nor any specially cultivated area can possibly supply the quantity required by the ryots, who, moreover, make no attempt to cultivate it for themselves.

17. *Operations for the improvement of the growing stock.*—The chief operations undertaken for the improvement of growing stock were as usual improvement fellings, thinnings, weedings, cleanings, prunings, creeper cuttings, fencing and the removal of parasites and noxious growth. The report from the Southern Circle in most cases gives the extent covered by each of these operations and their cost, but such details have not been given for the other circles. These operations, if carefully and systematically conducted, must be most beneficial and every effort should be made to extend them. The bunding of streams in order to retain the silt and keep the soil in the neighbourhood moist was successful in some localities in the Northern Circle.

18. *Experiments.*—Experiments on "species" were continued but except in regard to *Swietenia Mahogani* in Nellore, South Canara, South Malabar, North and South Arcot (Tiruvannámalai Range), *Swietenia Macrophylla* in South Malabar, camphor in the Nilgiris and Madura, bamboos in the West Coast districts, Eucalyptus in North Salem and Red sanders, Divi divi and Sisso in the Conservator's compound at Waltair, the results were not encouraging. Nine varieties of timber-yielding Eucalyptus, which have been propagated from seed specially obtained from Australia, are being experimentally planted out at different elevations in the Nilgiris. Experiments were made in all the districts in the Northern Circle and some districts in the Southern Circle to test the effect of fires on the growth of grass, but without any definite results. The Forest Commissioner has seen some of these experiments. His own opinion is that with the limited supervision which the present staff is able to give to them, they cannot produce any results which can be depended on, and merely waste time and energy which might be better employed. No one who has been much in the jungle can doubt that burning does, for practical purposes, improve grazing for the time being by removing the coarse grass, thus making room for a plentiful fresh growth of tender grass which all beasts prefer. The best judges are the game, the cattle and the graziers, all of whom have only one opinion. But it is not to be forgotten that the primary object for which a large proportion of the reserves is maintained is to produce not grass but timber and fuel, and it is hardly necessary to insist that burning does not improve the two latter.

(5) Exploitation.

(*a*) *System of management.*

19. *Major produce.*—As in previous years, the methods adopted for the exploitation of major produce were clear or regeneration fellings, selection fellings improvement and coppice fellings. In some districts in the Northern Circle, regular thinnings were undertaken. The issue of permits was only continued in the following cases. In East Cuddapah, permits were granted for the removal of bamboos as no contractors could be found. Apparently for the same reason, permits were issued in North Cuddapah for the working of bamboos in the Palakondas and of charcoal in areas not under any working plan. Bamboos were also removed on permits in South Salem. The removal of timber was allowed on permits in places in North and South Cuddapah where the demand was small. In the Nilgiris, permits were issued for inferior timber, fuel and bamboos for local consumption. In Kollegal, North Coimbatore and Central Coimbatore, small timber and bamboos, brushwood and twigs were removed from felled coupes under permits.

20. *Minor produce and fodder grass.*—Minor produce was leased out to contractors in almost all districts. In the Sandur range of Bellary, East and West Kurnool and a portion of the Nellore district, it was collected departmentally, and in a few other districts some kinds of miscellaneous produce were so collected. Permits were issued in several districts for such classes of produce as stone, gravel, leaf manure, and thatching grass. In West Kurnool, Bellary, North, South and East Cuddapah, North Arcot and South Canara, the free removal of grass from the reserves was permitted. Except for East Cuddapah where it is reported that 10,000 tons were removed, the quantity removed is not stated in the Circle reports, nor is it possible to state it, but Collectors are requested to see that as far as possible full particulars are given regarding free removal of grass in future reports as required by Board's Proceedings, Forest No. 157, dated 5th July 1910.

21. *Hay-making.*—Experiments were conducted in several districts, especially in the Central Circle, but there was little local demand for the hay made. It has since been decided that these experiments should be continued, in order to obtain data on which a larger scheme may ultimately be based if necessary, and that for the present financial considerations may be ignored. The Conservators have been requested to select at least one centre in each Circle for such an experiment and to submit proposals for conducting it and an estimate of its cost including the extra establishment required.

22. *Grazing.*—The revenue from grazing fell from Rs. 7,82,510 to 7,69,770. A decrease of Rs. 22,758 in the Central Circle was partly counterbalanced by increases of Rs. 5,184 in the Southern Circle and Rs. 4,834 in the Northern Circle. The decrease in the Central Circle is attributed generally to the unfavourable season and to the exclusion of goats from reserves in Nellore, after the introduction of the new grazing scheme.

(*b*) *Agency of exploitation.*

23. The following statement compares the total outturn of timber, fuel, bamboos and minor produce from all areas under the control of the Forest department with the outturn of the preceding year:—

Agency of exploitation.	Timber in cubic feet including sandal-wood in cubic feet.		Fuel in cubic feet.		Bamboos number.		Minor produce including grass.	
	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.
1	2	3	4	5	6	7	8	9
							Rs.	Rs.
By Government agency ..	614,419	917,164	12,085,902	13,953,682	6,111,168	6,349,626	54,460	69,363
By purchasers including confiscation (*a*).	2,517,668	2,499,073	8,787,553	7,382,834	25,756,150	32,931,358	14,82,008	15,95,416
By right holders	78,353	93,422	154,694	154,612	13,193	15,068	41,780	26,296
By free grantees	174,721	149,969	22,709	4,312	152,254	123,737	1,650	2,070
Total ..	33,85,161	36,59,628	21,050,858	21,495,440	32,032,765	39,419,784	15,79,898	16,93,145

(*a*) Figures showing the quantities of timber and other produce confiscated and sold in the Southern Circle during 1908–1909 and 1909–1910 have not been received from the Conservator of Forests, Southern Circle.

24. The total outturn of major and minor produce was larger than in the previous year. The outturn of timber from departmental working increased in all three circles, while that from removals by purchasers rose in the Central and fell in the other two Circles, the net result being a small decrease of 18,595 cubic feet. A larger quantity was extracted departmentally, mainly in the districts of Ganjám, Anantapur, Guntúr and South Coimbatore. The decrease in the quantity removed by purchasers is small and calls for no remark.

25. There was an increase in the quantity of fuel removed by Government Agency in the Northern and Central Circles, which was partly counterbalanced by a decrease in the Southern Circle. The increase was marked in the Central Circle owing chiefly to extended departmental operations in North Cuddapah and North and South Arcot. The quantity removed by purchasers fell in all the three circles, mainly in the districts of Ganjám, Vizagapatam, Nellore, North and South Arcot, Guntúr, South Coimbatore and Tinnevelly. The decrease would have been still greater but for the considerable increase in Kistna and South Canara.

26. The number of bamboos extracted by the department and the number removed by purchasers largely exceeded the previous year's figures. To the increase in the quantity removed by purchasers, the districts of Lower Gódávari, North Salem, and Central Coimbatore contributed most.

27. The value of the outturn of minor produce, including grass and grazing, rose by over $1\frac{1}{8}$ of a lakh. It increased in all the three circles and chiefly in Gódávari Upper, Bellary, South and East Cuddapah, North Arcot, South Salem and Kollegal. The Circle reports show that no material progress has been made in replacing the departmental working of timber and fuel coupes by the contract system. It is found very difficult to get satisfactory contractors, especially in the Central Circle, and progress

in this direction must necessarily be slow. The Board has impressed upon the Conservator of Forests, Central Circle, the need for making greater efforts to give effect to the policy laid down by Government. Steps were taken in the Northern and Central Circles to dispose of the forest produce at the edge of the forests. In the Southern Circle, no such steps were taken, the reason given being that the system involves higher carting expenses and would raise the price of fuel to the consumer. The Board does not consider the reason convincing and has informed the Conservator that the attempt should not be abandoned. Arrangements are being made, wherever possible, to transfer departmental sale depots to private agency. The estimated value of the produce removed by right-holders was Rs. 66,039 against Rs. 78,888 in the previous year, and of the produce granted free Rs. 20,157 against Rs. 26,541 in the preceding year.

Financial Results.

28. The revenue and expenditure of the year are compared below with those of the previous year, and with the average of the preceding five years.

Circle.	Revenue.	Expenditure.			Surplus.
		A. Conservancy and works.	B. Establishment.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	11,23,985	7,38,291	4,37,459	11,75,750	— 51,765
Central Circle	19,18,620	7,33,010	4,46,916	11,79,926	+ 7,38,694
Southern Circle	11,41,598	6,30,631	3,98,620	10,29,251	+ 1,12,347
Total { 1909-1910 ..	41,84,203	21,01,932	12,82,995	33,84,927	+ 7,99,276
{ 1908-1909 ..	38,86,296	17,89,252	11,96,106	29,85,358	+ 9,00,938
Average for the five years preceding 1908-1909.	31,73,353	13,65,396	9,55,331	23,20,727	+ 8,52,626

Compared with that of the previous year, the gross revenue rose by Rs. 2,97,907 and the expenditure by Rs. 3,99,569, the net result being that the surplus decreased by Rs. 1,01,662. This is hardly matter for regret. In the present state of development of the Madras forests, the Board considers that a larger share of the gross revenue might with advantage be put back into them.

29. All the three circles contributed to the increase under gross receipts—Northern Circle (Rs. 75,197), Central Circle (Rs. 1,96,723), Southern Circle (Rs. 25,287). The increase in the Northern Circle was due chiefly to increased sales of fuel in depots in the majority of the districts, to leasing out bamboo coupes in Lower Gódávari, to the higher prices realised for tangedu bark leases in Bellary and the larger receipts from tree owners' fees in the same district. The increased revenue in the Central Circle was derived chiefly from fuel and sandal-wood, while that in the Southern Circle was due to the higher prices realised by the sale of trees on tank-beds in Madura and fuel coupes in Tinnevelly and for fuel sold to the mills and the public in Madura.

30. The expenditure under A. Conservancy and Works increased in all the three circles. In the Northern Circle, the increase was chiefly due to extensive departmental operations in almost all the districts, to extended cultural operations in West Kurnool and Bellary and to the construction of much needed buildings in the Nallamalais. In the Central Circle, extensive departmental fuel operations in nearly all the districts, the construction of rest-houses and subordinates' quarters in North Salem, and increased expenditure on planting in Guntúr and Nellore, chiefly contributed to the increase. The increase in the Southern Circle was due to the payment of compensation for lands acquired in the Attapadi valley in order to conserve important water sources. To the increase of Rs. 86,891 under establishments and contingencies, the Northern Circle contributed Rs. 37,712, the Central Rs. 15,550 and the Southern Rs. 33,629. The increase was due mainly to increments of pay granted to Imperial Service officers under the time scale system, to a small increase in the scale of temporary Deputy Rangers, Foresters and Forest Guards, sanctioned for special

works, and to the appointment of a Special Deputy Collector to investigate the boundaries of reserved forests in Madura. There was no increase in the permanent establishment except such as was required to man new districts or ranges. The outstanding revenue at the close of the year was Rs. 3,02,449–9–5 of which only Rs. 67,731–13–4 fell due within the year.

31. The following statement shows the financial results of the year after deducting capital expenditure not yielding an immediate outturn :—

		Rs.
Gross revenue		41,84,203
Value of produce removed by right-holders and free grantees...		86,196
Total ...		42,70,399
Gross expenditure		33,84,927
Deduct expenditure not yielding an immediate outturn—		
	Rs.	
(i) Communications and Buildings	2,68,052	
(ii) Cultural operations	2,07,189	
(iii) Working-plans	1,971	
(iv) Settlement	1,14,036	
(v) Surveys	22,071	
(vi) Demarcation	32,594	
		6,45,913
Balance of direct revenue—producing expenditure		27,39,014
Surplus of revenue over expenditure directly chargeable to revenue		15,31,385

Administration.

32. The Hon'ble Mr. C. J. Weir, who was the Forest Commissioner from 1st July 1909 to 15th September 1909 and from 3rd November 1909 to 10th February 1910, visited North Arcot, Salem, Tinnevelly, Madura, Kurnool, Bellary and Anantapur. The Hon'ble Mr. R. B. Clegg, who was Forest Commissioner from the 16th September 1909 to 2nd November 1909, visited Cuddapah and Guntúr. The Hon'ble Mr. W. O. Horne, who has been Forest Commissioner since 11th February 1910, visited North Arcot, Coimbatore, Madura, Anantapur and West Kurnool during the year and inspected considerable areas of the forests in those districts.

33. Mr. Lushington held charge of the Northern and Mr. Lodge of the Southern Circle throughout the year. The Central Circle was in charge of Mr. C. E. Brasier until 23rd April 1910 and of Mr. Peake for the rest of the year. The Conservators visited all the divisions except Kollegal during the year and inspected all the District Forest offices. The accounts of all the District Forest offices except Ganjám, Kistna, North and East Cuddapah and Kollegal were audited by the Local Fund audit establishment of the Accountant-General's office and the results were reported to be satisfactory. Most of the District Forest Officers toured for more than the prescribed period of six months and they inspected nearly all the Range offices.

34. The Board has much pleasure in recording its appreciation of the good work done by the Conservators and by the officers of the superior staff. The keenness of all officers and their persevering work under great difficulties deserve high commendation. On the whole, the work and conduct of the subordinate executive and ministerial establishments was fairly satisfactory. The present arrangements for the training of the subordinate executive staff at Dehra Dun are unsatisfactory and render it impossible to keep up the supply of properly trained subordinates. This can never be done until local training is available and the Board earnestly hopes that the opening of the new college at Coimbatore will not be deferred further. The conduct of the subordinate protective staff continued to be unsatisfactory, but seeing that the staff is weak and insufficiently paid as well as inefficiently supervised, it is not possible to expect better results. No doubt the vernacular training schools will, to some extent, improve the efficiency of the staff, but at present the size of a forest guard's beat is

so great that it is impossible for him to protect it and he often succumbs to the temptation to make something out of irregularities which he knows will occur in spite of his best efforts. The relations between Revenue and Forest officials continued to be cordial.

35. The only territorial changes during the year were the transfer of the Nugur range from the Central Provinces to Upper Gódávari division, and the transfers of the Attapadi blocks 1 to 6 from South Malabar to Central Coimbatore and of the whole of the Nilgiri Eastern Slope reserved forest from North Coimbatore to the Nilgiris. The new Rámnád forest division has been formed, but no separate officer has yet been posted to it, and it is still under the control of the District Forest Officer, Tinnevelly. A third forest charge in Kurnool is about to be formed. The Conservator, Southern Circle, points out that it was impossible to keep the ranges properly manned owing to the large number of Rangers on sick leave and the absence of any reserve to replace them. This remark applies equally to the other two Circles. An increase both of the controlling and of the subordinate staff is the most crying need of the department. The work is increasing year by year and the establishment has long ago failed to keep pace with it. The present state of affairs makes proper work impossible. The Board is about to approach Government with a request for an increase.

General.

36. Timber transit rules were sanctioned for Kollegal and North Coimbatore during the year, and for the Kistna district after its close. In districts where transit rules were previously in force, they are reported to have worked satisfactorily. The ryots continued to enjoy their usual privileges under the rules under Section 26 of the Forest Act, and no instances of serious abuse were brought to notice.

37. The demands of the ryots for timber, fuel and agricultural implements were met by departmental sale depots which were mostly in towns or villages. Steps were being taken in the Northern and Central Circles to open such depots at the edge of the forests. The depots in Madras were highly popular. The measures adopted in Ganjám, Gódávari and Trichinopoly to secure the co-operation of the hill men in the protection of the forests were largely successful. As already stated, the Chenchus were again responsible for fires on the Nallamalais, but the progress of the measures taken to civilise them is nevertheless remarkable.

38. Owing to a depression in the mica industry in Nellore, only two mines worked continuously during the year and consequently there was a fall in the revenue from that source. A mining lease for manganese was granted in Bellary over a portion of the Tumbaragadde reserve, and a prospecting license over a portion of Alagilavada reserve previously granted in the same district was renewed during the year. In West Kurnool, licenses were granted to prospect for diamonds, and in Anantapur a gold mining lease covering an area of 1 square mile was issued. A mineral known as "samarskite" which is considered to be exceedingly valuable owing to its radio-active properties is stated to have been discovered in the Sankara mine in Nellore.

39. The condition of the elephants in charge of the department is satisfactory. The Commissioner inspected a large number of them and found no cause for complaint.

(True Extract.)

A. R. LOFTUS-TOTTENHAM,
Secretary.

To the Secretary to Government, Revenue Department.

Order—No. 130, Revenue, dated 16th January 1911.

Forest No. 4.

Recorded.

2. Five hundred and forty square miles of forests in the Nugur taluk were transferred from the Central Provinces to this Presidency in the year under review. This area was originally reserved under the Indian Forest Act (VII of 1878), which,

under Regulation I of 1909, has ceased to be in force in the taluk transferred. The Board has accordingly recommended that the forests should be resettled under the Madras Forest Act (V of 1882) and has submitted proposals, which are under the consideration of Government, for their proper control and management. Proposals for the conservancy of the Chokkapad and Chandragiri forests in the Ganjám Agency were sanctioned during the year. The boundaries of certain reserves in the Madura district and in the Bhavání, Satyamangalam and Kollegal taluks of the Coimbatore district were reported not to be in agreement with the notified descriptions of them and the Government have appointed a Special Deputy Collector for each of these districts to revise the boundaries.

3. In G.O., No. 730, Revenue, dated 8th March 1910, the Board of Revenue was requested to pay special attention to the question of extending the system of disposing of produce at the edge of the forests. The Government are glad to observe that steps are being taken to carry out this policy in the Northern and Central Circles. They agree with the Board of Revenue that the reason given for the failure to do so in the Southern Circle, viz., that the system involves higher carting expenses and raises the price of fuel to the consumer, cannot be accepted as convincing and trust that more satisfactory results will be obtained in all circles during the current year.

4. In G.O., No. 2890, Revenue, dated 17th October 1908, the Government declared that the general policy to be followed in working fuel depots is that the Forest Department should dispose of its produce as near the forests as possible and should leave the working of the sale depots to private agency and stated that the departmental working of coupes cannot, in their opinion, be dispensed with until properly trained contractors are available. The Board has since been informed that these orders apply rather to the transfer to private agency of the distribution of forest produce than to the transfer to such agency of felling, which the Government recognise must, for the present, be carried on departmentally. The present report shows that endeavours have been made to introduce the contract system as regards distribution but that the progress so far made has been small. The Government must again impress upon all Forest officers their desire that all possible steps should be taken to transfer the work of distribution of forest produce to private agency.

5. The Government have, during the year, received complaints, which enquiry has shown were not without foundation, regarding the insufficient stock of fuel maintained in certain sale depots. The Government consider the maintenance in the depots of a stock of firewood sufficient to meet all reasonable requirements a very important function of the Forest Department. The Board is requested to issue instructions which will ensure that the matter receives adequate attention at the hands of Forest officers.

6. The Government are glad to observe that attention has been given in the Central and Southern Circles to the important question of introducing the system of limiting grazing, and hope that the Board will shortly be in a position to formulate a definite scheme with this object.

7. During the year under review, rules for the guidance of Forest officers in compounding forest offences were prescribed. The manner in which these rules work in practice should be dealt with in future Administration reports.

8. The Government observe that the Board is inclined to think that rewards might, with advantage, be granted regularly to Forest subordinates for the detection of offences. The Board is requested to state its views on this question in detail for the consideration of Government.

9. The minimum pay of clerks in all Conservators' and District Forest Offices was raised to Rs. 20 during the year under review. An additional forest charge in the Kurnool district and a forest charge for the Ramnad district have been constituted since the close of the year.

10. The Government note with pleasure the testimony borne by the Board of Revenue to the good work done by the Conservators and the superior controlling staff of the department, and are glad to learn that the work and conduct of the subordinate executive and ministerial establishments were fairly satisfactory. As

observed by the Board of Revenue the strength of the department is inadequate for the proper performance of all the work it is called upon to perform, and the preparation of working plans, sylvicultural operations and the development of roads and communications are in consequence retarded, while forest beats and ranges are too large to be efficiently protected. If the proposals made by this Government for strengthening the controlling staff of the Forest Department in this Presidency are accepted by the Secretary of State to whom they have been submitted, much-needed relief will be given to the superior officers of the department and the Forest College at Coimbatore can be brought into existence without further delay. The Board's proposals for strengthening the subordinate staff are awaited.

11. The Government are glad to observe that ten districts were visited by the Commissioner of Forests during the year.

(True Extract.)

L. M. WYNCH,
Ag. Secretary to Government.

To the Board of Revenue, Land Revenue (Forests).
,, Accountant-General.
,, Government of India, Department of Revenue and Agriculture (with C.L.).
Editors' Table.

ANNUAL ADMINISTRATION REPORT

OF THE

FOREST DEPARTMENT

OF THE

MADRAS PRESIDENCY

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1911.

(1910-1911.)

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1912.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

NORTHERN CIRCLE, 1910-1911.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1 & 2
	2. Forest settlement	3
	3. Demarcation	4
	4. Forest surveys	5 & 6
II	Management of State forests—	
	1. Regulation of management—	
	(*a*) Preparation and control of regular working-plans ...	7 & 8
	(*b*) Annual plan of operations	9
	2. Communications and buildings—	
	(*a*) Roads and bridges	10
	(*b*) Buildings	10
	(*c*) Miscellaneous works	10
	3. Protection of forests—	
	(*a*) General protection	11 to 15
	(*b*) Protection from fire	16 to 18
	(*c*) Protection from cattle	19 & 20
	(*d*) Protection against injuries from natural causes ...	21
	4. Sylviculture—	
	(*a*) Natural reproduction	22
	(*b*) Artificial reproduction	23
	(*c*) Operations for improvement of the growing stock ...	24
	(*d*) Experiments	25
	5. Exploitation—	
	(*a*) System of management—	
	(i) Major forest produce	26 to 30
	(ii) Minor forest produce	31 to 34
	(*b*) Agency of exploitation—	
	(i) Departmental agency	35
	(ii) Purchasers	36
	(iii) Rights and privileges	37
	(iv) Free grants	38
	(*c*) Outturn and sources of forest produce	39
III	Financial results	40
IV	Administration	41 to 56
V	General	57 to 69
	Appendices A to D and Forms Nos. 65 to 85.	

FOREST ADMINISTRATION REPORT

OF THE NORTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1911.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

The following shows the changes in forest areas :—

Class.	Area on 1st July 1910.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1911.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Reserved Forests	5,808	228	10	+ 218	6,026
Do. Lands	130	599	5	+ 594	724
Leased Forests	63	..	..	..	63
Total ..	6,001	827	15	+ 812	6,813

The changes exhibited are for the greater part administrative. 217¼ square miles of reserved forests were transferred from the Kadiri Range of the Central Circle to *Anantapur* District. 540 square miles of reserved lands were transferred from the Central Provinces to the *Upper Gódávari* whilst 49 square miles of reserved lands were notified during the year in *Anantapur*.

2. The total forest area under the control of the department was 6,813 square miles, which (excluding zamindaris and inams) is 25·33 per cent. of the total area.

2. Forest Settlement.

3. Ten blocks (93 square miles) remained to be constituted reserved forests at the commencement of the year. Progress in settlement was slow for, though 11 square miles in five blocks were added during the year, only two blocks (5 square miles) were notified under section 16 during the year. Settlement was however completed in four blocks (77 square miles) leaving a balance of nine blocks of 22 square miles under settlement.

The blocks pending completion of settlement are in *Vizagapatam* (one of 10 square miles) and *Anantapur* (six of 11 square miles) and small blocks in *Bellary* and *Kurnool West*.

3. Demarcation.

4. During the year, 116 miles of external demarcation were carried out, of which 83 miles are in the Pondakhol forests in *Ganjám*. These forests were reserved in 1906 and it has not been explained why the length of line to be demarcated was not shown in the previous returns in column 6 of Form 67. *Kurnool West* and *Anantapur* are responsible for the balance of new work. In *Kurnool West* the heavy expenditure is attributed to the hilly nature of Gani reserve and the number of cairns required.

4. Forest Surveys.

(*a*) *By Survey of India.*

5. No new work was undertaken during the year, but 17 standard sheets relating to *Gonjám* on 4″=1 mile scale were published, and two were in the press. The Circle is much hampered by the want of proper maps as, up to date, surveys have only been completed for the Nallamalais of *Kurnool*, parts of *Ganjám*, the *Upper Gódávari* and parts of *Lower Gódávari*.

134088

(b) By Departmental Surveys.

6. No departmental surveys of the Reserves have been carried out but, in *Upper Gódávari*, the survey of dupati lands being conducted by the Madras Revenue Survey Department was placed in charge of the District Forest Officer from the 1st April. Since that date twenty villages have been surveyed and the records sent to the Revenue Survey Office for being checked and set up. The cost of this survey during the year was Rs. 4,206.

In *Ganjám* 135 miles of boundary line round Buguda and Chokkapad blocks were surveyed with a view to the notification of these blocks.

In *Gódávari Upper* 129¼ miles of line between the ryotwari and malguzari lands were surveyed departmentally at a cost of Rs. 59, but the work remained incomplete owing to the illness of the surveyors.

Throughout the circle a large variety of survey work was done by Rangers and Surveyors and Draughtsmen. This consisted of such work as verification of boundaries, alignment of roads and fire lines, survey of coupes and plantations, mapping, and preparation of estimates for roads, buildings, etc.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) Preparation and Control of Regular Working Plans.

7. *Preparation.*—The working-plan for 112 square miles in Harpanahalli Range in *Bellary* District, prepared in the previous year, was sanctioned in April 1911.

In *Vizagapatam* the revised working-plan for Senivaram reserve received sanction.

In *Upper Gódávari* those for Bhadrachalam and Marrigudem are still hanging fire having been returned for the collection of further grazing statistics.

In *Lower Gódávari* the final working-plans for Coringa and Kandikuppa have not yet been prepared.

In *Kistna* the revised working-plan of Gopuvanipalem was completed but returned by the Board. Plans for the Bezwada and Ellore Ranges were also prepared but returned by the Conservator for revision, whilst statistics are being collected for another 65 square miles. This division has made considerable progress and should show a good outturn next year.

In *Bellary* no progress was made with the Sandúr working-plan on account of the change of officers. In other districts little or no progress has been made.

Want of suitable maps and also of a special Working-plans Officer is the cause of slow progress.

8. *Control.*—The prescriptions of the sanctioned working-plan have been generally adhered to except in the *Ganjám* District.

In that district the cyclone of 1909 and damage done by fungus and borer caused deviations in Agastinowgam. Want of demand is said to be the cause of a departure from the provisions of the Plan in respect of the extraction of dead sâl in Mojjagoda and Kukuluba Ranges, whilst it was found more convenient to supply sâl coppice from unreserves than the working-plan area. Similarly the main provisions of the working-plan with reference to improvement fellings have not been carried out, whilst the Mohiri working-plan has been given up for some years. From what is said in excuse for these deviations, it seems evident that a complete revision of the various working-plans is necessary.

In *Gódávari Lower* the working-plan of Peddapur Range was not worked up to as regards the extraction of timber, whilst in Kandikuppa and Bendamurlanka dead casuarina trees had to be worked from coupes other than those prescribed.

Both in *Bellary* and *Anantapur* cultural operations far beyond the areas contemplated in the working-plan were undertaken owing to a special grant.

There is no doubt that in the whole Circle there is a want of control over the working-plans though exception must be made in the case of *Kurnool West* and *Bellary*. Both in *Ganjám* and *Lower Gódávari*, the Control Journals for a long series of years though called for have not been submitted.

(*b*) *Annual Plan of Operations.*

9. The sanctioned plans were generally followed except as detailed under working-plans above and in the following instances:—

In *Ganjám* only 12½ miles of road were constructed. Wrong estimation and delay in preparation of proper estimates were the causes of short work.

Under buildings also there was a shortage of work due to failure of contractors and the pushing on of demarcation in Pondakhol.

The works left undone were—

(1) Construction of Deputy Rangers' quarters (5) in Pondakhol.

(2) Construction of two Range offices and quarters at Tarsingi.

In *Vizagapatam* Senivaram rest-house was not completed for want of labour and supervising staff. The demarcation of Sarugudu and Somaralli blocks was deferred for want of settlement and the demarcation of Chintapalle for want of establishment. This block was finally settled many years ago.

In *Lower Gódávari* there were several important deviations from the programme of work, the chief works not carried out were:—

Roads—(1) Branch road to Mallavaram.
(2) Maintenance of three roads in Peddapur.
(3) Cart-track from Chedur to Ravigudem.

Buildings—(1) Outhouses and kitchen at Rajavommangi.
(2) Forester's quarters at Mallavaram.
(3) Flooring of Mulagalampalli rest-house.

Fuel operations in Mallavaram.

Cultural operations in Rajahmundry and Delta Ranges.

Various causes for delay are assigned, but a little more push seems requisite.

In *Gódávari Upper* many works were not carried out, but the District Forest Officer was hampered by large surveys and want of labour.

In *Kistna* no progress was made on two important roads as sanction was received late in the year.

In *Kurnool East* very little progress was made on roads and buildings for want of labour.

In *Kurnool South* the requirements of the Guntúr depot were over-estimated. Repairs to roads were not carried out in Gundlakamma Range and several buildings were postponed for want of funds.

In *Kurnool West* improvement felling work was in arrears in Nandyal and some of the Yerramalais coupes remained incomplete.

In *Bellary* (*a*) Felling of 15,000 Hardwickia poles was not carried out for want of sale of a trial consignment.

(*b*) Only 1,600 out of 3,000 tons of fuel were cut in Ramandrug for want of labour.

(*c*) Construction of two roads was postponed, not being immediately required.

(*d*) Construction of Forest Guards lines at Donimalai and rest-house in Anthapur valley was deferred for want of funds.

In *Anantapur* several roads were not constructed for want of establishment and none of the four rest-houses were completed.

2. Communications and Buildings.

10. The following figures compare the outlay on communications and buildings.

	1909-1910.	1910-1911.
	Rs.	Rs.
Roads and bridges	25,191	30,898
Buildings	79,216	68,875
Other works	7,374	7,255

showing an increase under Roads but a decrease under Buildings. The latter is to be deplored as it occurs chiefly in *Lower Gódávari* and *South Kurnool* where a development in this direction is much needed.

(*a*) *Roads and Bridges.*

The important works of a permanent nature carried out were the following :— *Ganjám.*—Construction of 12½ miles of new road, part construction of the wooden bridge across the Odangi. *Lower Gódávari.*—Construction of two miles of Chedur-Ravigudem road. *Kurnool East.*—Repair of Peddamantrala Ghát road and Papinenipalli-Pogabada road. The small amount spent on these important roads is to be regretted. *Kurnool South.*—Extension of Diguvametta-Isukagundam road by nine miles and repair of Nandikanama Ghát road for five miles. *Kurnool West.*—Improvement to Mantralakanama Ghât, and Pecheruvu-Rollapenta road. In *Anantapur* repair of Penukonda bridle-path.

Tramways.—The Monorail in the Bendamurlanka plantation was not worked, the fuel contractor having used other means of transport. The plant is deteriorating and might be made available for another District. It worked at profit for two years and thereafter at a loss as shown below :—

	Profit.	Loss.
	Rs.	Rs.
1905–1906	464	...
1906–1907	506	...
1907–1908	...	317
1908–1909	...	480
1909–1910	...	365
1910–1911	...	240
	970	1,402
Net loss ...	432	

(*b*) *Buildings.*

The important works of a permanent nature executed during the year were—

Ganjám.—Completion of Range offices and Range officers' quarters at Buguda and Gazilbadi; part construction of Deputy Rangers' quarters and shops in Pondakhol Range.

Upper Gódávari.—Part construction of rest-houses at Kunavaram and Murmur.

Kistna—Part construction of a Range and Subordinates' quarters at Dongamarlabhavi.

Kurnool East.—Completion of Deputy Rangers' quarters at Peddachama and Telugurayanicheruvu; the Range offices and quarters at Dornal and Markapur have not yet been completed. Some progress has been made with the rest-house at Telugurayanicheruvu.

Kurnool South.—Completion of rest-house and out-houses at Lokki. Combined Range office and quarters for two Rangers at Giddalur were started. Owing to failure of the contractor the Range office and two inspection houses in Sirvel remained incomplete.

Kurnool West.—Rest-houses at Nagaluti and Pecheruvu were nearing completion at the end of the year.

Subordinates' quarters were constructed at Rudracode and Pangidi and progress made with those at Nagaluti, Pasarutla and Sudam.

In *Bellary*, rest-houses were constructed at Copper Mountain and Kudligi, and Forest Guards' lines at Molagavalli.

In *Anantapur*, considerable progress was made with the rest-houses at Muchukota and Kuderu; but neither were finished. The Tadpatri range office was completed. The Ramagiri and Paliem rest-houses were started.

(*c*) *Miscellaneous Works.*

These works were very varied and consisted of repairs to tanks, digging and repairing wells, fencing, walling of rest-houses, erection of a syphon at Pecheruvu and construction of a masonry channel at Sudam.

3. Protection of Forests.

(*a*) *General Protection.*

11. The following statement shows the number and classification of Forest offences brought to light during the year:—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total.	
	1909-10.	1910-11.	1909-10	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.
1. Cases taken into court.	11	13	846	1,104	407	495	106	82	1,370	1,694
2. Cases compounded ..	6	16	1,551	1,807	1,259	982	187	166	3,003	2,971
3. Cases undetected ..	133	183	107	127	96	146	9	8	345	464
Total ..	150	212	2,504	3,038	1,762	1,623	302	256	4,718	5,129

The number of cases reported was slightly higher than last year but slightly less than the average. 738 cases were pending at the beginning of the year to which were added seven on transfer of Kadiri Range from Central Circle making a total of 745 cases. 845 cases were pending at the end of the year of which 335 were with Magistrates.

12. Out of the cases brought to trial during the year 1,505 ended in conviction and 283 in acquittal against 1,248 and 226 respectively in the previous year, the percentage of failure being 15·83 against 15·33 in the previous year.

Conservator's Remarks.—There is nothing remarkable about these figures and on the subject of protection the annual reports are becoming almost hum-drum. Protection, however, is in several of the divisions visited becoming a reality, notably in the Nallamalais of Kurnool. Whereas 20 years ago offence was discovered daily by Superior Officers, there are now very few traces of offence to be seen.

Closure of forests to grazing for not reporting or preventing illicit grazing or other offences on a large scale

(*paragraph* 3 *of Board's Proceedings, Forest No.* 186, *dated* 10*th August* 1911).

13. The following is the précis of Collectors' reports on this subject:—

Ganjám.—The system is not feasible as large areas of unreserves for grazing are available. Khonds are held responsible for the protection of the forests on pain of their concessions being cancelled.

Vizagapatam.—The system has not been adopted as offences on a large scale are not as a rule committed.

Upper Gódávari.—The system is not feasible as the cattle of any village can graze in any of the reserves, provided a permit has been taken. Groups of villages the inhabitants of which should regularly graze their cattle in a particular reserve are being arranged and the system referred to in the Board's Proceedings will be gradually introduced and the results reported in future administration reports.

Lower Gódávari.—Owing to frequent changes of Range officers no definite information could be gathered. However effort will be made to collect information with a view to introducing the principle as a measure for fire protection next hot weather.

Kistna.—An investigation into the number of forest offences in different reserves for the past five years disclosed no necessity for any action.

Kurnool East.—No mention has been made on this subject in the report.

Kurnool West.—Effect has been given to Board's orders by issuing a notice in the District Gazette allotting portions or blocks of forests to the neighbouring villagers to assist in keeping out fires. The result will be reported in the next year's report.

Bellary.—Necessary notification was published in the District Gazette of May 1911 and the villagers warned; it is too soon to report the result.

Anantapur.—There are no such villages in the district.

Conservator's Remarks.—The season has been on the whole very favourable and no cases in which offences have been committed on a large scale have been brought to notice.

14. Two thousand three hundred and forty-five cases were compounded for Rs. 26,533 during the year against 2,876 for Rs. 27,327 in 1909–1910.

15. Report was made to the Board regarding the proposal to extend the system of rewards, but little or no use was made of the existing rules concerning their grant.

(b) Protection from Fire.

16. The areas attempted and protected are given in Form No. 72. The system of protection was not altered, but was extended in some places. In *Ganjám* the season was favourable and practically the whole of the protected area was saved, whilst it is estimated that 92 per cent. of the unprotected area was saved. This success is attributed in part to the widening of the fire lines and partly to the willingness shown by the Khonds to assist in protection.

In *Vizagapatam* the season was also favourable, but this does not account wholly for the great success which attended the operations, for the Palkonda Range entirely escaped fire and there no timely showers occurred. Out of 112,284 acres under special protection only 939 were burnt and in a great measure this was due to the better protection of the Dharakonda and Senivaram reserves by the opening out of the Northern and Eastern fire lines. In the unprotected area 6,405 acres out of 72,795 acres were burnt.

In *Upper Gódávari* in the protected areas only $2\frac{1}{4}$ square miles were burnt as compared with $218\frac{3}{4}$ square miles in the preceding year. The season and greater watchfulness on the part of the subordinates account for these results.

In *Lower Gódávari* fires were almost as numerous as usual and the reports concerning them are considered unreliable.

In *Kistna* only 1 out of 73 square miles was burnt, but there were nine fires in the specially-protected Kondapalli reserve.

In the three divisions of *Kurnool* there was a remarkable immunity from fire in the protected blocks of the Nallamalais—in the *East* only 305 out of 25,650 acres were burnt, in the *South* 15 square miles out of 253 square miles were burnt, and in the *West* 46 square miles out of 260 square miles were burnt. Here the fires occurred in the Terai of the Velgode Range. In the Gundlabrahmeswaram hill Range the immunity from fire was most remarkable.

The civilisation of the Chenchus is making rapid strides and it is a marvellous fact that in *South Kurnool* the Chenchu women wished to stop the collection of *Ippa* (*Bassia Latifolia*) flowers so as not to encourage the drunken habits of the men.

In Owk Range of the Yerramalais protection was a failure, due to the negligence of the Ranger, and several coupes were burnt through fire escapes. In the West Kurnool Yerramalais there were several instances of incendiarism by sheep-graziers. In *Bellary* the operations were far from successful as the chief protected area is in Sandur where more than a quarter of the protected area was burnt.

In *Anantapur* only 194 square miles are protected and 558 unprotected. In the former 12 per cent. was burnt by 49 fires and in the latter 10 per cent. by 123 fires. The results are better in the unprotected area because, owing to heavy grazing, there

was less grass. Through both causes enormous damage is done. The Collector considers the system of protection might be improved by extending the protection of interior lines. The dead fences are also a source of danger and 26 miles of fencing were burnt.

17. Rs. 61,072 were spent on fire protection during the year. The area dealt with was 2,397 miles against 2,079 miles in the previous year, of these 2,104 square miles were successfully protected against 1,606 square miles in the previous year, the proportion of failures fell from 22·75 per cent. to 12·22 per cent. during the year and the cost per square mile successfully protected from Rs. 37–10–1 to Rs. 29–0–5.

18. The following statement shows the number and origin of fires in the several districts :—

District.	A. Fires caused by accident or through carelessness in burning fire lines		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas. Owing to carelessness or accident: By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		By villagers, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Ganjám	6	84	9	16,450	..	..	10	441	..	..	..	..
Vizagapatam	1	3	..	..	1	10	6	31	..	..	..	..
Gódávari Upper ..	2	108	2	1,293	..	..	..	..	..	..	..	..
Do. Lower ..	..	..	7	835	1	..	12	289	..	..	..	..
Kistna	1	2	..	..	..	..	5	185	..	..	..	..
Kurnool, East	..	..	4	1,740	..	..	..	..	..	..	..	..
Do. South	5	608	..	..	..	..	8	7,024	1	96	1	314
Do. West	3	630	2	74	..	26,888	34	65,103	2	1,005	..	..
Bellary	1	10	..	..	..	..	..	..	2	455	..	..
Anantapur	2	7	1	278	2	..	3	115	..	..	..	..
Total ..	21	1,452	25	20,670	4	26,898	78	73,188	5	1,556	1	314

District.	C. Fires beginning inside the reserves or fire-traced areas—*cont.* By intentional firing: In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.		Causes unknown.		Total of A, B and C.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Ganjám	..	..	..	..	11	767	21	1,208	59	5,467	95	23,209
Vizagapatam	..	..	..	..	..	..	7	41	2	7,300	10	7,344
Gódávari Upper ..	..	..	..	..	..	..	..	..	1	50	5	1,451
Do. Lower ..	..	..	1	500	..	..	14	789	12	128	33	1,752
Kistna	..	..	..	..	..	..	5	185	7	432	13	619
Kurnool, East	..	..	..	..	..	..	..	..	4	305	8	2,045
Do. South	1	340	..	..	3	834	14	8,608	5	665	24	9,881
Do. West	10	374	3	2,472	..	..	49	95,842	37	61,574	91	158,120
Bellary	..	..	..	..	2	182	4	637	8	12,031	13	12,678
Anantapur	2	53	..	..	8	2,333	15	2,501	154	46,924	172	49,710
Total ..	13	767	4	2,972	24	4,116	129	109,811	289	134,876	464	266,809

(*c*) *Protection from Cattle.*

19. Nine hundred and seventy-two square miles were closed against grazing against 814 square miles in the previous year. This is only one-seventh of the forest area. It is much to be regretted that the dry districts of *Kistna*, *Bellary* and *Anantapur* have still large areas open to goat browsing. These are just the districts in which the greatest harm must arise from such a course.

20. The following statement gives an analysis of the cattle impounded during the year with the average for the three years preceding :—

District.	From open forests.		From closed forests				Total.		Average for three years ending 1909–1910.
			Holding permits from open forests.	Having no permits.	Holding permits from open forests.	Having no permits.			
	1909–1910.	1910–1911.	1909–1910.	1909–1910.	1910–1911.	1910–1911.	1909–1910.	1910–1911.	
Ganjám	3,448	1,958	..	450	1,439	564	3,898	3 ,961	3,091
Vizagapatam ..	2,555	605	..	68	..	2,136	2,623	2,741	2,404
Gódávari, Upper.	13	..	..	..	..	..	13	..	57
Do. Lower.	1,154	633	..	135	..	600	1,289	1,233	995
Kistna	1,591	2,461	639	1,806	361	1,020	3,536	3,842	3,608
Kurnool, East ..	..	2,738	..	..	..	..	..	2,738	..
Do. South.	5,543	7,440	..	3,652	..	1,035	9,195	8,475	8,843
Do. West ..	9,308	12,810	..	4,249	35	3,287	13,557	16,132	18,140
Bellary	12,287	7,388	2,178	2,727	471	1,278	17,192	9,137	19,466
Anantapur ..	9,780	5,867	..	1,490	21	1,240	11,270	7,128	10,735
Total ..	45,679	41,900	2,817	14,077	2,327	11,160	62,573	55,387	67,339

The decrease in *Bellary* is striking and is attributed to a plentiful supply of grass and levy of enhanced pound fees in some closed blocks. The fall in *Anantapur* is not explained.

(*d*) *Protection against Injuries from Natural Causes.*

21. The spread of root fungus (*Trichosporum vesiculosum*) in the *Ganjám* casuarina plantations has been checked by the introduction of broad-leaved species. The borer (*Arbela tetraonis*) continued to spread but the trees, though weakened, do not die. In *Upper Gódávari*, the attack by *Jassids* was inconsiderable. The *Xylia dolabriformis* borer has not been identified. In *Lower Gódávari* there was heavy mortality in the casuarina plantations. This is said to be due to the clay sub-soil rather than to attack by fungus.

In similar plantations in *Kistna* the attack both of fungus and borer has been arrested by the burning of debris after felling and the admixture of broad-leaved species. In the *West Kurnool* plantations small attacks of *Hyblæa puera* and *Pyrausta machaeralis* were noticed on teak. The leaves of *Pterocarpus Marsupium* were also attacked apparently by the latter. The attacks are as severe in the mixed as in the pure plantations. In *Anantapur* considerable damage was done by hares in the areas subjected to cultural operations.

4. Sylviculture.

(*a*) *Natural Reproduction.*

22. From *Ganjám* reproduction from seed in the Sâl forests is reported to be good but the growth of the seedlings slow, whilst coppice regeneration in the coupes is excellent.

In *Vizagapatam* coppice reproduction continues to be excellent in the coupes whilst, throughout the division but more especially in the moist areas, regeneration from seed is good. In the two divisions of the *Gódávari*, the reproduction of *Xylia dolabriformis* and *Anogeissus latifolia* is reported to be specially good in the hill tracts, whilst that of *Terminalia tomentosa* and teak is good. In the Upper division *Hardwickia binata* did not seed. In the Lower division *Avicennia officinalis* is said to reproduce well where conditions are favourable more especially in parts of the Coringa reserve.

In *Kistna*, the reproduction of *Chloroxylon swietenia*, *Anogeissus latifolia* and *Acacia sundra* is reported to be good in Bezwada Range, whilst in Ellore reproduction was uniformly good in all unburnt areas. In this division the reproduction of *Avicennia officinalis* is good in all the mangrove swamps except those on the Upputeru where it is only moderate.

In the divisional reports of *Kurnool*, very little information is given on this subject but in the course of my tours in the South and West divisions I have been surprised to see the splendid natural regeneration of *Dalbergia latifolia*, *Pterocarpus marsupium*, teak and *Terminalia tomentosa* in every area which has escaped fire in the Nallamalais. In both these divisions the coppice from hardwood stools is excellent. In the Yerramalais regeneration from coppice is stated to be good in some of the blocks.

In the Sandur Range of *Bellary* District there is a noticeable growth of Sandal and Satinwood seedlings. Within the fenced areas natural reproduction is good, but in areas open to grazing there is hardly any natural reproduction.

Regrowth from coppice is reported to be good, more especially that of *Anogeissus latifolia* in the Kakuppi reserve. *Cassia fistula* produces excellent sucker shoots when the roots are wounded.

In *Anantapur* natural reproduction is good wherever there is a little shade and a few seed bearers.

Reproduction of *Hardwickia binata* is very good in parts of the Malappakonda, Amagondapaliem and Kottakota reserves.

(*b*) *Artificial Reproduction.*

23. Form 75 has been prepared in consonance with previous years. It has however evidently been incorrectly kept for a series of years. It stands to reason that in such districts as *Ganjám*, *Lower Gódávari*, *Kistna* and *Kurnool* where watering is a necessity the cost of upkeep must be far greater than the cost of creation in the case of regular plantations.

Regular plantations.—In the three divisions of *Kurnool* the additions are to the regular plantations of Teak, *Pterocarpus marsupium*, *Melia azadirachta* and *Terminalia tomentosa*. In *Ganjám*, *Kistna* and *Bellary* the additions are to the plantation of Casuarina mixed with broad-leaved species, whilst in *Gódávari Lower* casuarina has been planted pure. The plantations of *West* and *East Kurnool* have been formed with a view to giving employment to the Chenchus and in this respect they have succeeded admirably. Those of the West Division were inspected by the Acting Conservator who is of opinion that, in spite of somewhat high initial expenditure, they are likely to prove a financial success. The growth throughout is good and in some parts excellent. Pecheruvu, however, must be excepted as there the marshy and poor soil is unsuited to teak. An area of 77 acres has been excluded for those parts where the plantation failed.

In *Bellary*, the Moka plantation of Casuarina has not done as well as might have been expected. *Dalbergia sissoo* has however done excellently. The other plantations are reported to be doing well.

On the whole the progress made with regular plantations was good, 549 acres as compared with 370 acres last year.

Cultural operations—Ganjám.—Mound sowing in Chatrapur Reserve proved almost a total failure. *Upper Gódávari.*—In the Bhadráchalam Range over 203 acres there are 13 established plants per acre of Teak, *Pterocarpus marsupium* and Rosewood. In Marrigudem the area treated is 400 acres and the results are better showing 43 plants of the same species per acre. In Bhadráchalam the result is poor, only five plants per acre over 215 acres survive. *Lower Gódávari.*—Two hundred and forty-two acres of Coringa Reserve were sown with *Avicennia officinalis* but with poor results. *Kistna.*—In Bezwada Range coupe sowings resulted in failure. Similar sowings in Ellore Range were more successful. Babul sowings in this district were also a failure. *Kurnool East.*—At Maddipenta plants in bamboo tubes were put out over an area of 18 acres but with doubtful success. More success attended a similar operation at Chinnamantrala over 6 acres. *Kurnool South.*—Mound and trench

sowings in owk Range germinated well but died in the hot weather. Some of the coupes were burnt. *Kurnool West.*—Mound and trench sowings were carried out over an area of 140 acres in the Yerramalais. About 20 per cent. of the plants on mounds and 30 per cent. in trenches came up. The trenches at present. give the best results, especially when shaded in the hot weather. In the Nallamalais mound sowing was started at Indereswaram to provide work for the Chenchus. Out of 21 acres prepared with mounds, rather over 10 were sown during the year. Near Sivapuram 100 acres were dibbled. Germination was very successful. Most of the plants died down during the hot weather but began to sprout again after the rains. *Bellary.*—The operations in this district were very extended and consisted of dibbling in hill areas, and mound and furrow sowing in the plains. Mound sowings gave the best results. Furrow sowings succeeded in some localities and failed in others. In the North-east block of the leased forests, 50 acres were sown with Sandal near Ramkolla. Germination was successful but the seedlings were killed by fire. *Anantapur.*—Mounds, pits and dibbling were tried in all Ranges with varying success. Some of the areas under regeneration were burnt, others were damaged by hares and rats. In many places seedlings after dying down sprouted again during the rains. During the year there was no conspicuous success, but no total failure.

Remarks by Conservator.—These operations are one of the chief features of the Circle. The results are not apparent for two or three years as a rule. Splendid results have been obtained by mound sowing in Banavasi (Bellary district) where there is now an established plantation chiefly of *Melia Azederachta* and *Albizzia Lebbek* over about 400 acres and this has been done at a cost of little more than Rs. 4 per acre. Owing to a special grant, over 900 acres were treated in the same way and bid fair to become a success. Good results have also been obtained in the same Range in Kupgal where 939 acres have been prepared with mounds and sown. In Alur taluk on the other hand, sowings on black-cotton soil have not been at all successful, no care having been taken to fill up the cracks formed during the hot weather. The most remarkable result of these operations in *Anantapur* has been the establishment of Sandal in two places in Amagondapaliem reserve at a suitable elevation of 2,200 feet. The trees are now about five years old. The District Forest Officer reports that it has also been successfully introduced in Madakasira range. The Collector has not commented on the marked success which has been obtained at Pecheruvu in West Kurnool in aiding artificially the natural reproduction of this valuable tree. As this place is known to produce scented wood, these successful operations may well be regarded with pride.

Terracing and the bunding of streams and gullies.—The terracing and planting up of the Conservator's compound at *Waltair* has been continued. In the older parts canopy has become established in places. Unfortunately, a small piece has had to be cut for the building of the District Forest Officer's bungalow. Eleven acres were planted and, with a view to early establishment of cover, some large plants of *Ficus Elastica* have been put out and these promise well. *Ganjám*—An attempt was made to arrest the silt being washed down. Bunds of earth supported by a bamboo frame work supported by uprights were erected over an area of 233 acres. The abnormally heavy rains in October caused some of the bunds to be breached, but there is promise of future success now that the bunds have consolidated. *Bellary*—Small rough stone dams across streams were erected in several ranges at a cost of Rs. 300. Results are not given. *Anantapur*—Bunding of streams was discontinued.

Remarks by Conservator.—The most remarkable results of the bunding of streams were observed by the Conservator in the Adóni East reserve of Bellary District. Small roughstone bunds were constructed in 1908 and have been maintained. Along one stream the water disappears in four places but reappears as springs lower down. The whole water course consisting of rough boulders has covered itself with a bushy growth of evergreen and at the head waters a small patch of evergreen forest, in which two saplings of *Dalbergia Latifolia* were noticed, has established itself. Three other streams have been similarly treated and in several places small marshes have formed behind the bunds. Undoubtedly the flow of water has been arrested. The total cost has been only Rs. 80. Natural regeneration along the streams is being aided artificially.

(*c*) *Operations for the Improvement of Growing Stock.*

24. In addition to the ordinary works of improvement—

Creeper cutting.—Is carried out in *Ganjám* by the subordinates, Khonds and fire patrols. In *Kistna* the same operation is carried out prior to felling in fuel coupes and in *Kurnool West* is done in conjunction with improvement fellings.

Fencing.—Closed compartments are systematically fenced in *Bellary*, *Anantapur* and *Kistna* and in the Yerramalais of *Kurnool*. Part of the Gadidemadugu reserve, where a stone wall has been completed, shows a great deal of natural regeneration

(*d*) *Experiments.*

(i) *On Species.*

25. *Sandal.*—Tests are being made in the Waltair compound to ascertain the best hosts. The experiments are still in their infancy, but it is found that the Sandal grows excellently with *Pongamia Glabra*, *Dalbergia Sissu*, *Ficus Religiosa*, *Orange* and *Acacia Leucophlœa*. *Ficus Elastica* has been found to be a bad host.

Mahogany.—At Waltair the old trees of both species are doing well, but the best results are to be found in the plantations of *Kurnool West* where trees of five years old are 25—30 feet high. Plants have now been introduced in all the plantations except Pecheruvu and are doing well.

Red Sanders (*Pterocarpus Santalinus*).—This tree is also being tried in the plantations of *West Kurnool*, but the plants are still young. Sowings in the Yerramalais were not successful, but basketted plants are doing fairly well and 50 out of 66 plants survive. In *Ganjám* about one acre was planted during the last four years and the plants are growing extremely well. Of the older trees left standing after the cyclone the largest is 55 feet high and has a girth of 3 feet $7\frac{1}{2}$ inches.

Padauk (*Pterocarpus Indicus*).—Seed was received and some sent to Bellary, but no results have been reported.

Logwood (*Hœmatoxylon Campechianum*).—At Waltair the old trees are doing fairly well but are straggly. Some seedlings have again been put out on the terraces.

Camphor.—A few plants remain, but are not doing very well.

Catalpa Speciosa.—166 plants survive in the Moka plantation in *Bellary*. They were planted in 1909–1910 and are about $1\frac{1}{2}$ feet high. In *Ganjám* 9 plants still survive.

Rubber—(1) *Ficus Elastica.*—A good number of plants have been put out in *Waltair* this year and are doing well. In the older plantations many still remain but are not making much progress.

(2) The *Ceara* trees in *Ganjám* are reviving in spite of being so severely damaged by the cyclone. Seedlings are coming up in large numbers.

(3) The *Para* trees in *Vizagapatam* are not thriving. A mistake was made in planting them under shade, but the shade has now been removed.

Hardwickia Binata.—The trees in the sample plots in *Anantapur* for ascertaining the rate of growth of this tree and also of *Chloroxylon Swietenia* were measured and the girth measurements recorded in July 1911. The measurements have evidently been inaccurately made for in many instances there is a decrease in size.

In *Bellary* the rate of growth of trees sown in Rayachóti has not been reported on, but it has been ascertained that in the area sown in 1906, one tree started a leading shoot in 1908 and now, at five years old, the great majority of the trees are 8 feet high. This rate of growth is not in consonance with the figures published by the Research Department. Valuable statistics might be obtained in this district both from Rayachóti and Kupgal as regards the rate of growth of this tree.

(ii) *Grass Experimental Plots.*

These have all been abandoned in accordance with the orders of the Board. By the apathy of those in charge of the experiments some valuable statistics have been lost.

5. Exploitation.

(a) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

26. Two coupes of Casuarina in *Ganjám*, one in *Lower Gódávari* and four in *Kistna* with an area of 181 acres were clear felled. Two mangrove swamps in *Kistna* (4,274 acres) and 2,409 acres of babul in *Anantapur* were similarly treated.

(2) *Selection Fellings.*

27. In *Ganjám* dead sâl was removed departmentally from six blocks. The indent system as in last year was not much supported by purchasers. In *Kistna* soft wood was selected and sold to a contractor from two coupes. In *Kurnool* the collection of dead-wood prevails throughout.

(3) *Regular Thinnings.*

28. No regular thinnings are conducted, though, in several districts, bamboos are systematically worked and the clumps thinned out.

(4) *Improvement Fellings.*

29. These are confined to West Kurnool where 2,060 acres were dealt with under the regulations of the working-plan. The fellings consisted in cutting back ill-shaped trees of good species.

(5) *Coppice with Standards.*

Four coupes in *Ganjám*, nine in *Vizagapatam*, five in *Lower Gódávari*, four in *Kistna*, thirteen in *West Kurnool*, four in *Bellary* and four in *Anantapur* were worked under this method of treatment. The total area worked was 7,538 acres.

(6) *Unregulated Fellings.*

30. These were confined to bamboos in the *Upper Gódávari*, the unreserves and Rampa in the *Lower Gódávari*, Palmyras in *West Kurnool*, and the removal of unclassified trees in the Kadiri range of *Anantapur*.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

31. In all districts seigniorage was collected on gravel, earth and other minerals. The usufruct of mango, tamarind, and other fruit trees was sold in auction; the collection of tangedu and other barks, honey, wax, myrabolams, hides, horns, etc., were leased. The chief deviations are noted below:—In *Ganjám*, most of the produce was left to the free enjoyment of Khonds, in *Vizagapatam*, hillmen were allowed to collect and sell to merchants in the weekly markets and seigniorage was collected from the purchasers. In the three divisions of *Kurnool*, the collections other than tangedu and amroy were made departmentally through the Chenchus. In *Bellary* the collection in Sandur Range was departmental.

(2) *Extraction of Fodder.*

32. In *Lower Gódávari* pasture lands in Cocanada taluk were leased. In *Kistna* the collection of fodder grass from closed areas was leased. In *South Kurnool* grass was collected departmentally and used for Government bulls. In *Kurnool West* free removal of grass was permitted in head loads. In *Bellary* Mr. Howes removed from *Bellary, Adoni and Rayadrug* Ranges 300 tons of grass free of charge. The Military department removed 806 tons paying a royalty of Rs. 2 per ton. In *Anantapur* a large quantity of grass was removed free and 4,836 head loads on seigniorage of 3 pies.

(3) *Hay-making and Silos.*

33. In *Kistna* about 40 tons of hay were collected but not sold for want of demand. In *Kurnool South* hay was collected and used for Government bulls. In *Bellary* Range 65 tons were collected and stored in *Bellary* depot as against 410 in the previous year.

(4) *Grazing.*

34. The subjoined statement compares the revenue from grazing :—

	Rs.
1909–1910	2,08,168
1910–1911	1,86,285

There has been a falling off in almost all the districts but chiefly in *Kurnool*, *South* and *East*, *Kistna* and *Bellary*. In the former district the decrease is not explained. In *Kistna* the delta cattle are said to have come up in smaller numbers, whilst in *Bellary* a large number of goats are said to have gone over to Mysore.

(*b*) Agency of Exploitation.

(i) *Departmental Agency.*

35. Forms 76 and 77 show separately the different classes of produce collected and Form 78 the stock disposed of and the balance remaining. The total quantity of timber and fuel, the number of bamboos and the value of minor produce extracted departmentally were 69·93, 43·98 and ·3 of their respective total outturn through all agencies and the total value of disposals of the year was Rs. 3,48,378 against Rs. 3,50,936 in the previous year.

Transport was conducted in the same way as in previous year.

Timber.—The quantity of timber extracted was 18,000 c. ft. more than in 1908–1909 but 61,000 c. ft. less than 1909–1910. The districts chiefly responsible for the decrease are *Ganjám*, *Gódávari*, *Upper* and *Lower*, and *Anantapur*. The reasons assigned are non-disposal of stock and dull markets.

Fuel.—The quantity of fuel removed was 4,622,826 c. ft. against 4,229,585 in the previous year, the increase is due to larger demand. The increase is chiefly in *Anantapur*.

Bamboos.—The number of bamboos extracted was 6,767,523 against 5,822,686 in the previous year ; the increase is due to larger demand and was contributed by all districts except *Upper Gódávari* and *Bellary*.

Minor produce.—The produce collected was 176,645 maunds against 399,383 in the previous year ; the fall is due to want of crop.

(ii) *By Purchasers.*

36. The prepayment system was in force in *Upper Gódávari* for removal of produce for local consumption from reserves and in *Lower Gódávari* from unreserves and *Rampa*. Driftwood was sold in auction in both districts. In *Vizagapatam* purchasers were allowed to remove bamboos in reserved forests where the working of coupes was found impracticable or where the coupes were far away from localities of consumption.

(iii) *Rights and Privileges.*

37. The following statement shows the estimated quantity and value of produce removed under this head :—

	Timber		Fuel.		Bamboos.		Minor produce.	Grazing.	Total value.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
	787	58	154,506	2,895	12,293	62	23,570	1,080	27,665

The value of the produce removed in the previous year was Rs. 27,489.

(iv) *Free Grants.*

38. The following statement shows the quantity and value of produce removed by free grantees :—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total.
Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
RS. 76,009	RS. 6,010		..	121,600	RS. 718	RS. 277	..	RS. 7,005

The value of the produce removed in the previous year was Rs. 8,466.

(c) Outturn and Sources of Forest Produce.

—	Timber in cubic feet including sandal wood.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce (including grass and grazing); gross value in rupees.	
	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.
1	2	3	4	5	6	7	8	9
By Government Agency ..	281,632	220,702	4,229,685	4,622,826	5,322,686	6,767,523	13,537	4,970
By purchasers (including confiscation)	758,609	784,011	1,260,824	1,066,885	10,508,242	8,484,399	5,28,564	4,26,461
By right holders	787	787	154,506	154,506	12,293	12,293	24,474	24,650
By free grants	77,597	76,009	..	..	93,367	121,600	349	277
Total ..	1,118,625	1,081,509	5,644,915	5,844,217	16,436,588	15,385,815	5,66,924	(a) 4,56,358

(a) Corrected in the Board's office.

39. The variations have already been explained. The rates of grazing fees levied in the several districts are shown in Form 74. The number of animals licensed to grazing on permits was 1,077,607 against 1,173,333 in the previous year.

CHAPTER III.—FINANCIAL RESULTS.

40. The financial results of the Circle compared with those of the previous year and with the average of the five years preceding show a net decrease of Rs. 86,583 and Rs. 2,54,976, respectively.

—	Years.					Average per year.	1909-10.	1910-11.
	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.			
Revenue	RS. 8,66,523	RS. 9,15,393	RS. 9,62,381	RS. 11,42,232	RS. 10,48,787	RS. 9,87,063	RS. 11,23,128	RS. 9,96,424
Expenditure.—A. "Conservancy and works."	3,59,025	4,41,695	5,55,749	6,16,043	6,43,235	5,23,149	7,36,482	6,92,695
Expenditure.—B. Establishments	2,73,518	2,94,453	3,33,840	3,79,201	3,97,767	3,35,756	4,26,881	4,30,547
Total A and B ..	6,32,543	7,36,148	8,89,589	9,95,244	10,41,002	8,58,905	11,63,363	11,23,242
Net results ..	+2,33,980	+ 1,79,245	+ 72,792	+1,46,988	+ 7,785	+ 1,28,158	— 40,235	*—1,26,818

* Excludes Rs. 1,915 being the net revenue over expenditure in Guntúr from sales of fuel and bamboos of Kurnool, South.

The gross receipts were slightly higher than the average but Rs. 1,26,704 less than in the previous year. The A expenditure shows a corresponding decrease.

The net results show a deficit of Rs. 1,26,818. This is due almost entirely to a falling off in the receipts from purchasers.

The total receipts and expenditure for the year fell by 11·28 and 3·45 per cent. respectively.

About 47 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 53 per cent. to exploitation, etc. It will be observed from Form No. 79 that the value of timber and other produce at sale depôts at the close of the year amounted to Rs. 1,99,200 which was Rs. 31,779 more than it was at the close of the previous year.

The outstanding revenue at the beginning of the year was Rs. 51,670 and the value of sales during the year amounted to Rs. 11,09,193. Out of the total of Rs. 11,60,864, Rs. 9,96,424 were collected, leaving an outstanding balance of Rs. 1,64,440 at the close of the year. Out of this Rs. 3,627 has since been collected, Rs. 1,278 is in deposit and Rs. 1,53,974 is due after the close of the year. It will therefore be seen that the amount actually left uncollected at the close of the year was only Rs. 5,561 ; out of this Rs. 4,585 relates to *Gódávari, Lower.*

Receipts.

(i) *By Departmental Agency.*

	Rs.		Rs.
Timber	— 11,376	*Bamboos*	+ 796
Fuel	+ 11,118	*Minor produce*	— 3,096

The figures show that the variations are not large and the deficit under Timber is counterbalanced by increased receipts under fuel.

(ii) *By Purchasers.*

There is decrease under all heads but chiefly under timber—Rs. 39,965. This is entirely due to *Upper* and *Lower Gódávari.* In the former no contracts were taken up by merchants as in previous years, in the latter the large quantities felled in previous years are said to be in stock and causing a dullness in the market, whilst favourable terms are being offered by neighbouring zamindars. The prevalence of cholera is also said to have obstructed purchasers.

Grazing and fodder grass—Rs. 21,883.—There is a small decrease in almost every district but as pointed out above chiefly in *Kurnool, Kistna* and *Bellary.*

Other produce—Rs. 66,622.—The loss is due almost entirely to the poor sales of tangedu bark in *Anantapur, Bellary* and *West Kurnool.* In the first named district there is said to have been a "combine." In *Bellary* the loss of Jali (Babul Pod) revenue is considerable.

(iii) *Miscellaneous (including confiscated drift and waifwood).*

Revenue +Rs. 13,527.—The increase is due to keen competition in drift wood sales in *Gódávari, Lower,* and to better realization of compounding fees.

Expenditure.

A.—Conservancy and Works.

The total expenditure was less than that of the previous year by Rs. 43,787 and due entirely to smaller departmental operations in timber and fuel. It will be noticed that the expenditure on works of improvement are higher than last year by Rs. 8,000.

CHAPTER IV.—ADMINISTRATION.

41. *New District Forest office charges.*—Kurnool was again sub-divided and became three Forest charges with effect from 1st December 1910.

New Ranges.—Two new Ranges Russellkonda and Bontha were constituted in Ganjám, and Kadiri Range was added to *Anantapur* District being transferred from the Central Circle.

42. *Conduct of the executive establishment.*—The conduct of the executive establishment is reported to be on the whole satisfactory in all districts except *Gódávari Lower* and *Upper*.

Good conduct.—The work of Rangers Sheik Rahimtulla Sahib, Thambu Nayudu, and V. S. Subramania Iyer is specially commended.

Bad conduct.—One Acting Ranger, V grade, was reverted, another reduced to the bottom of the grade and another suspended. The work of ten Rangers was condemned. Six Deputy Rangers were removed, two suspended and the work of three Deputy Rangers condemned.

43. *Protective staff.*—The conduct of this branch still continues unsatisfactory on the whole.

Prosecutions.—A prosecution of one Deputy Ranger has been taken in hand whilst another is evading arrest.

One Forester was sentenced to a fine of Rs. 100, whilst another is evading arrest.

Three Forest Guards were prosecuted and punished.

Some of the temporary establishment also were prosecuted and for the most part convicted.

Removals and minor punishments.—Seventeen Forest Guards were removed, 32 suspended and one reduced; whilst among other minor subordinates there were 72 removals and 41 suspensions.

Foresters.—On the whole they are said to have worked well; removals seven, suspensions two, and reductions two.

44. *Ministerial establishment.*—The temporary staff of range clerks was merged into the permanent staff.

The conduct of the ministerial establishment was on the whole satisfactory. One District Forest office acting Head Clerk was prosecuted, one acting Accountant removed. One Range clerk was dismissed and another temporarily reduced.

45. *Health of establishment and casualties.*—The health of the establishment was good except in *Ganjám*, *Gódávari Upper* and *Lower* and the *Kurnool Nallamalais*. Two Rangers, one Deputy Ranger, one Forester, three Forest Guards, three Watchers, one Tannahdar, one Range clerk and one peon died. Several subordinates had to go on leave on account of ill-health.

46. *Relations between Revenue and Forest officers.*—The relations between the Revenue and the Forest officials were cordial in every district. In *Kurnool East* the ryots of Cumbum taluk complained against the closure of reserves to the removal of leaf manure. Some of the reserves were since opened to licenses.

47. *Service books.*—These are maintained and verified in all the districts.

48. *Tours of Forest Member.*—Nil.

49. *Conservator's inspections.*—Mr. A. W. Lushington was in charge of the Circle up to the 13th April and Mr. P. M. Lushington subsequently.

Two hundred and thirteen days were spent in camp by these two officers.

The districts of *Ganjám*, *Vizagapatam*, *Kurnool* (three divisions) and *Anantapur* were inspected and the offices of *Ganjám* and *Kurnool East* and *West*.

50. *Touring of District Forest-officers.*—All the District Forest-officers spent more than six months in camp.

51. *Inspection of Range offices.*—All range offices were inspected except two in *Gódávari Lower*.

52. *Audit of accounts of District Forest Offices.*—All the District Forest Offices except *Kurnool East* were inspected by auditors from the Accountant-General's office and results were reported to be satisfactory.

53. *Imperial Forest College, Dehra Dun.*—Seven Government students for the Rangers' course and one for the third year's course were deputed. Out of the eight returned during the year, six obtained Higher Standard and two Lower Standard certificates. Two acting Rangers and one Deputy Ranger were sent down as unfit to complete the course of training.

54. *Vernacular Training School.*—This school was opened in Giddalore on 1st February 1911 with Messrs. Stracey and Chengappa as instructors. Subsequently Mr. Crothers relieved Mr. Stracey on 8th April 1911 and Chengappa had to be transferred from 8th May 1911, leaving his place in the school unfilled. Out of 28 deputed for training, 21 passed in the first and four in the second class; three were sent down on account of ill-health.

55. *Work and service of superior officers.*—The following Collectors have commented on the work of their District Forest-officers:—

Collector, Ganjám.—"Mr. Bennett's work was uniformly satisfactory." *Collector, Vizagapatam.*—"Mr. Murray's work was good." *Collector, Gódávari.*—"The work of "Mr. Rego was satisfactory. The results of fire-protection were specially creditable "this year. Mr. Dawson had done a great deal of touring since he came and dis- "covered frauds and bad work." *Collector, Kurnool.*—"Mr. Aswatham Nayudu had "no easy task in starting a new division. He has acquitted himself on the whole "satisfactorily; but was rather slow in getting work done." *Collector, Bellary.*—"Mr. "Minchin is a keen officer; but was somewhat handicapped by want of experience." *Collector, Anantapur.*—"Mr. Hodgson has displayed great keenness notwithstanding "the serious difficulties he had to cope with in the way of ill-health."

Conservator's remarks.—The permanent Conservator, who was in charge for more than nine months, has left on record no remarks as to the work of the superior establishment.

56. *List of vernacular names of trees and shrubs.*—The revision of this list was undertaken by the permanent Conservator and this work occupied much of his time. Many botanical specimens were collected in connection with this work. Part of the work done has been sent to the Press.

CHAPTER V.—GENERAL.

(*a*) Rules under the Forest Act.

57. (i) *Timber transit rules.*—The rules worked well in *Ganjám*, *Gódávari Upper*, *Kistna* and *Kurnool East*. In *Vizagapatam* the rules were revised during the year. In *Lower Gódávari* the number of checking stations on the river Gódávari was reduced at the instance of the Conservator of Forests, Central Provinces. In *Kurnool South* and *West* the rules have been found to be defective and steps are being taken to avoid the defects. There are none in *Bellary* and *Anantapur* Districts.

(ii) *Rules under section 26 of the Forest Act.*—The privileges allowed by these rules were generally availed by the people; and there were no complaints nor abuses.

(iii) *Rules framed for collection and disposal of drift wood.*—Proposals for revision of these rules were submitted to the Board but were negatived.

(iv) *Rules for the guidance of Forest-officers in compounding forest offences.*—The rules have generally been brought into force and are said to be working satisfactorily or with no perceptible effect.

(*b*) Supply of Forest Produce to meet the Wants of People.

58. *The coupe and depôt system.*—The permit system is only used for grazing and minor items in all districts. Efforts are being made to sell the produce in the coupes themselves. In *Ganjám* the sales are from coupes and sub-depôts. In *Vizagapatam* sales of timber, fuel and bamboos are chiefly from coupes and all depôts except Narasapatam were abolished. In some cases permits were given for the extraction of bamboos. In *Gódávari Lower* sale depôts have been abolished. In the Rajahmundry and delta Ranges fuel is cut and stacked departmentally but sold from the coupe. In Rajahmundry and Polavaram Ranges bamboos were leased to contractors. Licenses were used for unreserved lands and Rampa. In *Kistna* contractors were obtained for the management of sale depôts in Bezwada and Ellore towns. In *Kurnool East* there is great difficulty in obtaining contractors as the forests are so far from the market. A new coupe has been opened for the supply of

fuel for sugarcane boiling in Cumbum. In *Kurnool South* bamboos and fuel were generally sold from the coupes. In *Kurnool West* the fuel was sold in all the coupes; the only fuel sold in a depôt is at Kurnool. Negotiations for taking up the work on contract are proceeding. If contractors come forward they would readily be employed but those in the district are untrustworthy. In *Bellary* depôts were maintained only in Bellary and Hospet. In *Anantapur* permits were issued for timber in some of the Kadiri reserves. The depôt at Madakasira was abolished.

59. *Free removal of grass.*—Free removal of grass was permitted in *Kistna*, *Kurnool South* and *West*, *Bellary* and *Anantapur*. In *Kistna* few availed themselves of the privilege. In *Kurnool South* the concession was freely taken advantage of by the ryots and was not abused. In *Kurnool West* the villagers of Dhone abused the concession having cut and removed grass from the experimental fodder plot in the South Dhone reserve closed to free-removal. In *Bellary* the quantity removed by ryots was 1,537 cart-loads and 42,134 head-loads and that by Mr. Howes was 300 tons. Large quantities are taken out in *Anantapur*.

60. *Measures adopted to encourage the growth of manure leaf yielding plants.*—This subject is not dealt with here as it was ordered in G.O. No. 1065, Revenue, dated 29th May 1911, that the functions of this department must, in the supply of manure leaf, henceforth be mainly limited to the production and supply of *seed* for green manure plants.

61. *Hill tribes.*—In *Ganjám* the assistance of practically all the remaining Khond villages adjacent to or inside reserves in Goomsur was enlisted in fire-protection and general protection of forests and in return 231 Khond villages received concessions in the matter of ploughs, materials for repairing their houses, minor produce and dry fuel. The Pondakhol Khonds worked well on demarcation, road and building works. They were recompensed for their labour half in money and half in kind. Five shops in charge of Deputy Rangers were maintained for them in Pondakhol. In *Vizagapatam* care was taken to avoid giving the hill men cause for complaint against the working of the forest laws, so long as they did not abuse the privileges given to them. In *Upper Gódávari* the Koyas and Reddis worked at fire-tracing, line-clearing and felling small timber and bamboos. In *Lower Gódávari* the hill tribes were allowed to enjoy certain concessions in regard to podu-cutting, free grazing and free removals of certain species of timber for domestic and agricultural purposes from Rampa and unreserves. They, in return, were expected to assist in putting out fires. However the injury caused by extensive and systematic fires calls for a modification of these privileges. In *Kurnool* (three *divisions*) the Chenchus were employed chiefly on plantations and collection of minor forest produce. The scheme of departmental collection of Ippa flowers inaugurated in *Kurnool East* promises well and there was considerable reduction in the number of fires. In *Kurnool West* the concession of special collection of Ippa flowers under the supervision of the department and of distilling arrack therefrom allowed to them continued during the year. The Chenchus at Honkaram have been recommended for the grant of a reward for assisting in keeping out fires. Throughout the district there is a marked improvement in their condition, mode of life, and civilisation.

62. *Cultivation in reserved forests.*—No cultivation was allowed in the reserved forests except in *Bellary*. *Gódávari Lower* makes no mention of the subject. In *Vizagapatam* several cases of unauthorised cultivation were discovered in the Chintapalli reserve. In *Bellary*, with a view to afforest blank areas, cultivation was allowed in selected localities in Adóni and Alur Ranges subject to the condition that the ryots would grow trees along with their field crops. In Adóni this method of growing trees has been eminently successful.

63. *Mining and prospecting.*—In *Kurnool South* two syndicates are at work in the Yerramalais. One firm obtained a mining lease for diamonds. The exploring license for Steatite was renewed for another year. In *Anantapur* the Anantapur Gold Field, Limited, hold six prospecting licenses in Ramagiri reserve covering 9,769 acres. The North Anantapur Gold Fields, Limited, still hold a mining lease of one square mile. In *Bellary* the working of the manganese mines continues.

64. *Realization of revenue from the usufruct of toddy-yielding trees on Government waste and poramboke lands.*—The chief revenue is realised in *Lower Gódávari* (Rs. 5,283), *Kistna* (Rs. 9,837), *Kurnool South* (Rs. 1,663), *Kurnool West* (Rs. 17,673), *Bellary* (Rs. 22,353) and *Anantapur* (Rs. 8,986).

(*c*) Live and Dead Stock.

65. *Live-stock*—(*a*) *Elephants.*—In *Ganjám* three elephants were purchased during the year and they were in good condition. The old elephant's health was better than last year. The elephant in *Vizagapatam* suffered from tumour. In *Gódávari Upper* elephant Surat Pari was in good health, but the elephant Kesavan transferred from South Malabar died. In *Kurnool West* the elephant was in good health.

(*b*) *Buffaloes and Bullocks.*—In *Ganjám* out of 10 buffaloes, 2 were killed by a tiger and 2 died of old age. In *Kurnool South* out of 18 bullocks, 2 were killed by tigers, 1 died of old age and 1 was sold. In *Bellary* out of 46 bullocks, 1 died.

66. *Inventory of valuable stock.*—The stock registers were maintained and verified. The stock registers in *Bellary* require revision as the Range and District registers do not tally.

67. *Rain-gauges.*—Rain-gauges were set up in all the districts and the readings were properly recorded (*vide* Appendix D).

(*d*) Suits.

68. *Suits.*—In *Gódávari Lower* the High Court granted permission to prefer an appeal to the Privy Council in the Coringa Extension Suit and the Advocate-General was instructed to prefer the appeal. The High Court was moved to stay execution proceedings pending disposal of the special appeal and orders are due. In *Anantapur* a suit was filed against the department for the return of the security deposit pledged by one Razak Miya of Gooty. The case is proceeding.

(*e*) Development.

69. To one who has been absent from the Circle for a long period the enormous development of the forests is surprising. The opening up of the Nallamalais with roads and buildings and the success of fire-protection and plantations deserve special mention. Other striking features are the success of cultural operations in the Adóni taluk of Bellary district and the introduction of Sandal in Anantapur.

Office of the Conservator of Forests,
Northern Circle,
Waltair, 11*th September* 1911.

P. M. LUSHINGTON,
Conservator of Forests,
Northern Circle.

INDEX

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

CENTRAL CIRCLE, 1910–1911.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1 & 2
	2. Forest settlement	3
	3. Demarcation	4
	4. Forest surveys	5
II	Management of State forests—	
	1. Regulation of management—	
	(*a*) Preparation and control of regular working-plans ...	6–8
	(*b*) Preliminary working-plans	9
	(*c*) Annual plan of operations	10
	2. Communications and buildings—	
	(*a*) Roads and bridges	11
	(*b*) Buildings	
	3. Protection of forests—	
	(*a*) General protection	12–14
	(*b*) Protection from fire	15 & 16
	(*c*) Protection from cattle	17 & 18
	(*d*) Protection against injuries from natural causes	19
	4. Sylviculture—	
	(*a*) Natural reproduction	20
	(*b*) Artificial reproduction	21
	(*c*) Operations for improvement of the growing stock ...	22 & 23
	(*d*) Experiments	24
	5. Exploitation—	
	(*a*) System of management—	
	(i) Major forest produce	25–28
	(ii) Minor forest produce	29–32
	(*b*) Agency of exploitation—	
	(i) Departmental agency	33
	(ii) Purchasers	34
	(iii) Rights and privileges	35
	(iv) Free grants	36 & 37
	(*c*) Outturn and sources of forest produce	38
III	Financial results	39
IV	Administration	40–54
V	General	55–71

FOREST ADMINISTRATION REPORT

OF THE CENTRAL CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1911.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

According to the Administration Report for 1909–10, the total area of *reserved forests* at the end of that year for the circle was 7,966 square miles. Owing to the transfer of Kadiri range of the old South Cuddapah division to the Anantapur district during the year under report, 218 square miles of forests were transferred to the Northern Circle, leaving a balance of 7,748 square miles. Six square miles were added to the area, two by transfer from Reserved Lands in *Chittoor* and *Trichinopoly*, three on account of the transfer of the Karur taluk from the Coimbatore district to the *Trichinopoly* district and one by a more accurate computation of areas in *South Arcot*. On the other hand, there was a decrease of 15 square miles due mainly to disafforestation of small areas in most of the districts, to the rectification of areas in *South Salem* and to the transfer of small portions of padugai reserves to the Public Works Department in the *Trichinopoly* district, showing a net decrease of 9 square miles. So the total area of reserved forests in the Circle stood on 30th June 1911 at 7,739 square miles.

2. There was practically no addition under *Reserved Lands* during the year. The question of further reservation in the Vaiyampatti range of the *Trichinopoly* district was discussed during the year, and it was considered advisable to take up only one block of 709 acres for reservation. In regard to *Tanjore*, the question of reserving salt swamps and lands along the coast referred to in the last year's report was dropped. It is proposed to reserve $6\frac{1}{2}$ square miles of hill forests on the Pachamalais and maps for them are awaited.

2. Forest Settlement.

3. Of the 57 square miles still remaining to be notified under section 16 of the Forest Act, 46 represent the area of the Hudaidurgam block in respect of which the appeal preferred to the High Court has just been decided in favour of Government. The remaining extent is pending settlement with the Revenue Divisional officers.

3. Demarcation.

4. One hundred and sixty-six miles of artificial boundary line were demarcated at a cost of Rs. 779 against 125 miles in the previous year at a cost of Rs. 955 The average cost per mile was Rs. 4–11–1 against Rs. 7–10–3. Eleven thousand two hundred and eighty-nine miles are reported to have been recleared without extra cost by Forest subordinates against 11,653 miles in the previous year. The matter of permanent demarcation in the circle seems to require looking into, as reports are being received from some of the districts that the boundary lines of certain reserves are untraceable; this should not be the case if the lines have been finally and permanently demarcated.

4. Forest Surveys.

5. No work was undertaken by the Survey of India Party during the year except mapping. Departmental surveyors were employed in Nellore, North and South Salem in the verification of reserve boundaries, aligning roads, preparing

estimates and demarcating reserves and fuel coupes. In Trichinopoly, a surveyor surveyed 5 square miles in 4 reserves. Two hundred and ninety square miles remained to be surveyed and final maps had to be prepared for 649 square miles of reserved forests.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working Plans.*

6. *Preparation.*—No new working plans were sanctioned during the year. The revised working plan of the Coast casuarina plantations. *Nellore* was sanctioned during the year. Out of those referred to in the last year's report, the working plan for the Dharmapuri range *North Salem* awaits revision pending decision of the question of the formation of an additional range and the Cauvery project scheme. A reconnaissance report for the topes in Hosur range was drawn up by a ranger and is under consideration. The provisional working plan of Rapur range *Nellore* was carefully revised according to the density of growth and with reference to the grazing requirements of the surrounding villages and will be shortly submitted to the Board. A simple working plan for the Vriddachalam working circle, 16 square miles, *South Arcot*, was submitted to the Board at the close of the year. The provisional working plan for Javadi Hills in *North Arcot* (formerly in South Arcot) was continued pending further trial. Plans for 272 square miles in *North Cuddapah* are still under preparation. The preliminary working plan for the Palakondas timber working circle is under correspondence. Working plans for the padugais and upland reserves *Trichinopoly* are pending submission. The preparation of a plan for casuarina plantations in *Guntur* was taken up during the year. Some of the existing working plans badly need revision but the work can only be taken up as opportunity and staff permit.

7. *Control.*—The prescriptions of the working plans were generally adhered to as far as possible. The following are the important deviations :—

In *North Cuddapah* certain fuel coupes were in arrears owing to their present inaccessibility. Bamboo working circle coupes from II were not worked for want of demand. In *East Cuddapah* one coupe of Palakonda Bullmen's fuel working circle was exploited in advance to meet the increased demand. Fuel coupes in several ranges especially in Badvel were not worked for want of demand. In *Nellore* several arrear coupes in addition to the regularly prescribed ones in three working circles of the Rapur working plan and compartments 13 (*a*), (*b*) and (*c*) of Śrîharikôta working plan instead of compartment 6 set down for exploitation were worked during the year. Arrear coupes in Kavali, Bitragunta and Vovveru working circles were worked departmentally for want of contractors and fuel supplied to depots and only two compartments of the Momidi working circle were leased out during the year. In *South Arcot* fuel and bamboo coupes in the Kallakurchi range fell into arrears for want of demand. In *North Salem* the fellings are generally behind hand for want of sufficient demand. In *South Salem* out of 30 sanctioned working circles 21 were proposed to be worked but work was carried out in only 15. The working plans need revision.

8. *Estimate of area for which working plans have yet to be prepared.*—Working plans for 2,415 square miles have still to be prepared excluding 95 square miles taken in hand during the year. It is quite unlikely that any substantial progress in this direction can be made with the present forest staff for some time to come and it is useless to expect it at present.

(*b*) *Preliminary Working Plans.*

9. In *North Cuddapah* experimental located fellings were carried out in 12 timber and 12 fuel coupes for collecting data for preparation of future plans. In *Nellore* no plans were drawn up during the year. Data were collected for an additional area of 20 square miles in the Kottapatam reserved forest. In *Chittoor* statistics are being collected for the Vayalpad range working plan. The scheme for sugarcane fuel supply in the same range drawn up in 1907 has not worked

satisfactorily owing to short demand. In *South Arcot* a preliminary plan of located fellings under a 30 years' rotation for two ranges and a portion of a third was drawn up preparatory to collecting data for preparation of regular working plans and fellings were carried out in a number of coupes. In *Guntur* work continued to be carried out under the general schemes for casuarina planting in Bápatla range and in other ranges in accordance with the schemes drawn up by the District Forest officer. Speaking generally Preliminary Plans with the simplest provisions appear to be urgently called for in the Circle, so that in each district and range a definite line of work may be steadliy pursued. It is quite useless to attempt to draw up a lot of plans merely to form a net-work of working plans over the forest area but without any immediate prospects of being able to carry out their provisions.

(*c*) *Annual Plan of Operations.*

10. The plans of operations were generally adhered to with some deviations :— In *North Cuddapah* collection of bamboos and cultural operations were not carried out as the operations in previous coupes were not completed. Construction of a range office building, an inspection shed, a cart-track and sinking of wells were not taken up. In *East Cuddapah* top ends of red sanders trees were not collected for want of demand and certain buildings and roads were postponed. In *Nellore* the construction of a range office, quarters for guards and watchers, and rest-houses had to be postponed for various reasons. In *Chingleput* some of the coupes were leased out on lump sum contract to give effect to the policy of Government. In *North Arcot* the construction of subordinate's quarters at Melput Tiruvannámalai range had to be postponed as the estimate had to be revised and the construction of one road was substituted for another In *Chittoor* the construction and repairs of a few roads and buildings in Vayalpad had to be postponed to provide funds for more urgent and incomplete works. In *North Salem* certain buildings and roads were not undertaken as the estimates were not ready in some cases and for want of establishment in others. More sandalwood trees were extracted with the object of removing diseased and over-mature trees and bamboos were extracted departmentally as contractors failed to be procured. In *South Salem* two rest-houses had to be postponed to provide funds for a bungalow on the Sheveroys and a bridle-path was not commenced on account of delay in the preparation of its estimate. In *Trichinopoly* coupes were sold to contractors in three ranges to give effect to the policy of Government and in others they were worked departmentally.

2. Communications and Buildings.

11. The outlay on communications, buildings and other works, as compared with that of the previous year was Rs. 28,790, Rs. 35,140 and Rs. 3,647 against Rs. 22,549, Rs. 41,736 and Rs. 5,346, respectively. The increase was only under "Roads and bridges" mainly in *North Arcot North Salem* and *Trichinopoly*.

The important works of a permanent nature were :—(*a*) Roads and bridges, Mudumpad-Amabhavi bridle-path and Nallamalais road in North Cuddapah ; cart-track from Seshachellam to Pullagurapenta, bridle-path from Pullagurapenta to Kangamadugu in East Cuddapah, $4\frac{1}{2}$ miles in Chengam-Chekkadi road in Tiruvannámalai and $5\frac{1}{4}$ miles in Andiyappanur-Kambagudi road in Tiruppattúr and Patrakad ghát road in Polur ranges in North Arcot; (*b*) Buildings, construction of a rest-house at Gundampenta and a range office at Badvel in East Cuddapah ; range quarters at Mutukur and a rest-house at Kothachenu in Nellore ; completion of a rest-house at Kadapperi in Chingleput; construction of subordinate's quarters in Tiruvannámalai range in North Arcot ; completion of Pentzhupad rest-house in Chittoor ; two rest-houses at Periyakuppam and Sankarapuram and subordinate's quarters in five places in South Arcot ; a rest-house and forester's quarters at Kurumbapatti in North Salem ; subordinate's quarters at Kanjamalai in South Salem and two bungalows at Kattalai and Pallávaram in Trichinopoly.

Tramways.—In the coast range, 5,517 tons were trammed or $8,172\frac{3}{4}$ ton-miles were run against 9,038 tons or $19,063\frac{1}{8}$ ton-miles in the previous year and at Sriharikota $9,640\frac{1}{4}$ tons or $18,340\frac{1}{8}$ ton-miles against $7,538\frac{3}{8}$ tons or $18,439\frac{1}{2}$ ton-miles. The decrease in the former was due to poor yield of the coupes exploited during the year, and the increase in the latter to large supply of wood made to the Madras depots.

3. Protection of Forests.

(a) *General Protection.*

12. The forest offences registered during the year were—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1909–10.	1910–11.	1909–10.	1910–11.	1909–10.	1910–11.	1909–10.	1910–11.	1909–10.	1910–11.
1. Cases taken into court.	19	15	1,536	1,256	724	734	89	93	2,368	2,098
2. Cases compounded ..	7	5	7,972	7,976	4,327	4,039	217	558	12,523	12,578
3. Cases undetected ..	413	286	176	240	103	169	11	12	703	707
Total ..	439	306	9,684	9,472	5,154	4,942	317	663	15,594	15,383

The total is lower by 211 and 408 compared with previous year and previous three years' average respectively. The decrease has occurred under all heads except "other offences," under which there was an increase of 346. The decrease occurred chiefly in *North Salem*, *North Arcot*, *South Arcot*, *Chittoor* and *East Cuddapah* and is attributed to lack of supervision by Range officers whose time was taken up by Departmental fuel operations. The non-receipt of information from Collectors of several districts regarding cases in unreserved areas would also to a certain extent account for the decrease. There was a slight increase in *Trichinopoly* which is attributed to cases disposed of by Revenue Divisional officers. Other causes mentioned for rise and fall in the district reports are better protection and greater vigilance on the part of the subordinate staff, but there can be very little doubt that protection is generally inadequate.

Cases brought to trial.

——	Conviction.	Acquittals.	Percentage of failure.
1909–10	1,935	257	11·72
1910–11	1,944	287	12·86

The increase in acquittals was marked in *South Arcot*, *North Arcot* and *Nellore*.

Cases compounded.

	Number of cases.	Amount.
		Rs.
1909–10	11,293	97,881
1910–11	11,762	1,04,131

There was a very slight rise in the average per case which calls for no remarks.

13. The punishments inflicted by magistrates were on the whole satisfactory. There were no cases of importance calling for special mention except one in *North Cuddapah*, in which an accused was sentenced to two months rigorous imprisonment for setting fire to a reserved forest. If such punishment was meted out to offenders in such cases more frequently it would go far to prevent the deliberate firing of forests.

14. *Rewards* were as usual sparingly granted. In *South Arcot* Rs. 5 to a guard for detection at night; in *South Salem* Rs. 17 to the police for detecting four cases of illicit grazing and browsing; and in *Guntúr* Rs. 25 for an important case and Rs. 13 recommended at close of the year in connection with another case.

The rules laid down in Board's Proceedings, Forest No. 186, dated 10th August 1910, fixing a scale for compounding offences under grazing and browsing were generally observed, but it is too early a date to decide as yet whether this introduction

has been in any way beneficial to the forests or otherwise. It must however be observed that a considerable amount of additional labour is thrown on the Forest staff in having to issue permits for the animals concerned in addition to the compounding notices. It is for consideration whether this part of the rules as to the issuing of permits should not be withdrawn, as cases have already arisen in which the accused persons have claimed refund of the value of the permits on the ground that, before they received the compounding "Notices," they had already purchased permits from the permit issuing officers. There seems no advantage whatever in this compulsory issue of permits in such cases, and it would be simple enough to deduct the value of the permit before fixing the compounding fee. Further, as the District Forest officer, Guntúr, has rightly pointed out, the ruling that permits must be issued, where cases of cattle illicitly grazing in open areas are compounded, seems, in a district where the incidence of grazing is excessive, hardly consistent with the principle of limiting the grazing to the "possibility" of the reserves; and it seems an anomaly that the compounding fee which can be levied in the case of illicit browsing of the goat is only half as much as that in the case of illicit grazing of the less noxious cow.

(*b*) *Protection from Fire.*

15. In *North* and *East Cuddapah* the special system introduced in 1905–06 of burning a large area of the forest in strips of varying width in order to secure protection of the remainder and with a view to providing fresh grass was continued. The results are reported to have been satisfactory. In *North Cuddapah* portions of nine reserves of about ten square miles were so treated, the strips being 100 feet wide.

The experiments ordered in Government Order No. 466, Revenue, dated 27th February 1907, communicated in Board's Proceedings, Forest No. 44, dated 9th March 1907, to burn certain areas under departmental supervision to meet requirements of graziers were conducted in *North* and *East Cuddapah* over 10,633 acres and 39,280 acres, respectively.

Protection from fire was attempted over 5,603 square miles out of 7,798 square miles comprised in the circle at a cost of Rs. 18,904 against 3,767 square miles at a cost of Rs. 19,497 in the previous year. The proportion of failure fell from 6·3 per cent. in the previous year to 2·4. The proportion of failure in specially protected areas also fell from 10·7 per cent. in the previous year to 2·1. The cost per square mile successfully protected was Rs. 3–7–4 against Rs. 5–8–5 in the previous year.

16. Statement of fires according to their origin is given in Appendix D. The total number of fires and the areas burnt were 533 of 87,817 acres against 626 of 158,834 in the previous year. In *North Arcot* the grazing fee was raised by 50 per cent. in two areas owing to heavy fires and in *Chittoor* the Voilthota reserve was closed to grazing for one year owing to villagers not rendering assistance in putting out fires. In *East Cuddapah* owing to heavy fires, the concession of free removal of grass in certain areas was withheld for one year.

(*c*) *Protection from Cattle.*

17. Form No. 73 gives details of the areas open and closed to grazing and form No. 74 the number and kind of animals grazed free or on payment in reserved forests and reserved lands. The areas closed to grazing for part of the year and for the whole year were respectively, ·4 per cent. or 30 square miles and 9·6 per cent. or 749 square miles against 4 and 712 square miles in the previous year. The increase was in *North Cuddapah East Cuddapah* and *Chittoor*.

The percentage of forests open to grazing and to browsing to the whole area of the circle were 92·96 and 4·79 respectively. Goats were entirely excluded from reserves in *Trichinopoly South Arcot* and *South Salem*, and in the other districts small areas of certain reserves were open to these animals.

18. An analysis of the cattle impounded is given in Appendix E. There was a decrease in all districts except *North Cuddapah*, *North Arcot*, *South Arcot* and *Guntúr*. The increase in these districts is attributed to better supervision.

(*d*) *Protection against Injuries from Natural Causes.*

19. In *North* and *East Cuddapah Chingleput* and *Chittoor* no special measures were taken except the cutting of creepers and climbers in coupes worked during the year. In *Nellore* no traces of fungus were observed in the casuarina plantations. The principle of allowing two years' rest after a compartment is felled was followed to safeguard against disease. In *South Arcot* a large number of casuarina in the plantation and now over 30 years old died, chiefly in Periyakuppam reserve and is attributed to prolonged drought. Attempts are being made to interplant *Acacia auriculiformis* and *Pithecolobium dulce* in the plantations. In *Trichinopoly* the Sissoo in the padugais and *Albizzias* and *Melias* at Perambalur were still affected by *Loranthus longifolia*. This parasite was to some extent removed by the subordinates. In *Guntúr* 800 *casuarina* were uprooted and washed away by erosion on the coast of Surayalunka and about 5,000 young plants died in plantations and were replaced.

4. SYLVICULTURE.

(*a*) *Natural Reproduction.*

20. In *North Cuddapah* reproduction from seed of Teak, *Pterocarpus santalinus*, *Terminalia tomentosa*, *Chloroxylon Swietenia* and *Anogeissus latifolia* was good in all protected areas and coupes. In all felled coupes reproduction from coppice was good. In *East Cuddapah* reproduction from seed of *Pterocarpus santalinus*, *Shorea Tumbuggaia*, *Shorea talura*, Teak and *Anogeissus latifolia* was good. Reproduction from coppice shoots was very good in the case of all species, except *Hardwickia binata*. In *Nellore* reproduction from seed owing to continued drought was very unsatisfactory. Reproduction from coppice was satisfactory in the whole district. *Eugenia Jambolana* and *Memecylon angustifolium*, being particularly good. In *Chingleput*, owing to prolonged drought, reproduction from seed and from coppice was not satisfactory. In *North Arcot* reproduction from seed was specially good in the Ghat Forest and in all closed areas. *Albizzia amara*, *Acacia Sundra* and *Choloroxylon Swietenia* coppiced very well and regeneration from coppice was satisfactory on the whole. In *Chittoor*, except in the case of areas closed to grazing reproduction by seed was not satisfactory, that from coppice was good, especially *Pterocarpus santalinus* in the Chittoor reserve. In *South Arcot* reproduction by seed of *Chloroxylon Swietenia*, *Albizzia amara* and *Acacia Sundra* was good in closed areas only and reproduction from coppice good on the whole. In *North Salem* reproduction by seed in closed areas was good, so also that from coppice, principally of *Chloroxylon Swietenia*, *Albizzia amara*, and *Albizzia Lebbek*. In *South Salem* reproduction from seed in favoured localities of *Albizzia odoratissima*, *Albizzia amara* and *Sundra* was good and that from coppice fairly good. In *Trichinopoly* reproduction by seed in the reserves of Perambalur range was poor, owing to an unfavourable season. In other parts of the district and in areas protected, the regeneration was fair chiefly of *Santalum album*, *Anogeissus latifolia*, *Pterocarpus Marsupium*, the *Terminalias* and *Chloroxylon Swietenia*. In the Cassan forests and in padugais coppice shoots were excellent and promising. In *Guntúr* reproduction by seed of *Avicennia* in the Mangrove swamps was good; that from *Babul* in the working circles was good, but subsequently much of it was destroyed owing to flood. Reproduction from coppice was fair on the whole.

(*b*) *Artificial Reproduction.*

21. *Regular Plantations.*—In *North Cuddapah* there are no regular plantations. An area of ten acres in Rámeswaram reserve was sown during the year with *Acacia arabica* and the seedlings are doing well. So also the *Albizzia Lebbek* and *Pongamia glabra* that were put out last year. In Pulivendla tope sixty acres were sown with *Pongamia glabra*, Tangedu and *Acacia leucophlœa* and the seedlings are from 6″ to 12″ high. In *East Cuddapah* there are no regular plantations; the graft mango plants put out in Kodur tope in 1906–1907 have established themselves and are thriving. In *Nellore* no replanting of felled compartments was carried out in the casuarina plantations as they were left fallow for two years to ward against fungus disease. Some of the compartments were planted with casuarina and *Pithecolobium dulce*. An area of fifty acres in the Sríharikóta reserve was planted up with casuarina during the year. No further area in the Kollurpad plantation was taken up during the year owing to difficulty in getting water. In *Chingleput*, *Melia indica*,

Tamarindus indica, *Eugenia Jambolana*, *Albizzia Lebbek*, *Cashew*, etc., seedlings were planted in compartment 2 of the Meyyur plantation and watered. The areas in compartments 1 and 7 planted last year were watered and the plants are doing well. Grafted mangoes were also planted in compartment 8, these as well as the old plants are doing well. The twenty acres of casuarina planted in Palur padugai of Meyyur plantation in 1908–1909 and 1909–1910 are doing well and during the year 30 acres were planted with casuarina and on the whole the plants are doing well. In Illatur reserved forest, six acres were also planted with casuarina and here also the plants are doing well. In *North Arcot* 108 acres in *Vellore East range* were planted with casuarina, *Divi Divi* and *Pithecolobium dulce* with satisfactory results. In other areas, the casuarina put out 5 or 6 years ago are dying out. The Red Sanders in Pitcham tope are doing well. In *South Arcot* 285 acres in felled coupes were planted with casuarina and the percentage of failure was only 6 per cent. In *Chittoor* blocks in Balarupet tope Chittoor and Chase hill reserves were planted with Red Sanders with unsatisfactory results. In Pattukonda reserve 700 *Eucalyptus globulus* seedlings were planted over 40 acres and are doing satisfactorily. In Trichinopoly 140 acres were added to the existing area of 619 acres and planted up. In *Guntúr* an area of 533 acres in Bapatla range was planted with casuarina and other species chiefly *Sissoo* and the plants are doing well.

Cultural operations.—In *North Cuddapah* seeds of Red Sanders and *Terminalia tomentosa* were sown over 100 acres in Proddatur and proved a failure. So also the usual sowings in closed coupes. In *East Cuddapah* 100 acres were sown with manure leaf species with unsatisfactory results. In *Nellore* the nurseries in Srihari-kóta reserves were continued. Manure leaf species were sown in Kavali range but with unsatisfactory results owing to drought. In Lingamgunta tope 15 acres were sown with date and 50 per cent. germinated. In Kollurpad plantation, 10 acres were sown in "furrows" with *Eugenia Jambolana*, *Dodonæa*, *Pongamia*, etc., species and the seedlings are doing well. Seven hundred and fifty acres in Kondlapudi and 500 acres in Survepalli reserves were sown with *Melia* and *Pongamia* and are doing well. In *Chingleput* operations were conducted on an extensive scale as in previous years in all the felled coupes and in poorly-stocked areas. An extent of 3,172 acres were sown with 3,689 measures of several species. The operations were successful at the beginning, but at the close of the year owing to failure of the monsoon, 80 per cent. in the Chingleput range and 60 per cent. in the Tiruvallúr range died out. Twenty-five measures of date seeds sown in Budur Reserved Forest failed to germinate and the palm seeds sown last year are beginning to germinate and are in fair condition. In *South Arcot* seeds of *Tamarindus indica*, *Melia indica*, *Acacia Sundra*, etc., species were sown in blanks of felled coupes and cuttings of Banyan *Thespesia populnea*, *Poinciana elata*, etc., were also planted. The season being unfavourable, 90 per cent. of the cuttings died out, and most of the seeds that germinated at the onset. The area dealt with was 703 acres In *North Salem* 30,000 seedlings chiefly of Silver oak and Cypress, with some Brown pine and Eucalyptus were put out in the Sanyasimalai Reserve and a good percentage is doing well. Nearly all of the *Erythrnia suberosa* cuttings that were put out died. In Nagaramalai 11,000 cuttings and seedlings of indigenous species were put out and about 25 per cent. are thriving at the end of the year. In *Trichinopoly* the operation in Perambalur and Musiri ranges were a complete failure. In Námakkal range 75 acres were sown with tamarind, margosa, etc., species; of which seedlings are to be found only in four acres. In Udaiyár-pálayam range Mahagony, teak, and sissoo were introduced in the existing areas over an area of 60 acres, 6,220 plants were put out at a cost of Rs. 493 In Venganur reserve, of the plants put out in previous year 4,042 casuarina, 581 bamboos and 30 cashew were found thriving. In *Guntúr*, Babul, Margosa, etc., seeds were sown in the felled areas and the seedlings are reported to be doing well.

(*c*) *Operations for Improvement of the Growing Stock.*

22. In *North and East Cuddapah and North Arcot* creepers and climbers affecting the standards in all the felled coupes were cut and removed by subordinates. Improvement fellings were undertaken in timber coupes of North Cuddapah by felling unsound hollow and deformed trees. Thinnings of bamboos were carried out in the bamboo coupes. In *Nellore* the system of unregulated fellings was to a large extent

replaced by located fellings under departmental supervision. In *Chingleput* weeding, thinning and creeper cutting, were done wherever necessary and felled areas were fenced to keep out cattle. The removal of prickly-pear from compartment II of the Guindy Park was completed at a cost of Rs. 493. Climbers, creeper and parasite from the avenue trees in the Guindy Park were removed at a cost of Rs. 15. In *South Arcot* thinnings of bamboos in 10 reserves and of casuarina in the coast plantation were carried out. All dead casuarina in the coast plantation were extracted. In *North Salem* creeper cutting was undertaken to some extent in the Hosur range.

23. *Arboricultural development.*—The young and deformed teak that were cut back last year around the bungalow in *North Cuddapah* are doing well. In *Nellore* in the Udayagiri reserved forest 47 mango, 15 lime, 16 guava and 11 jack trees were planted and are doing well. In *Chingleput* a large number of seedlings of tamarind and Melia indica were planted in the felled coupes and in Meyyur plantation. In *South Arcot* a nursery was opened out in Salvady reserved forest for raising *Pterocarpus santalinus* to be planted out in blanks. Eighty plants were put out and 60 per cent. survived. In other districts nothing special has been mentioned, except what has been given under " cultural operations."

(*d*) *Experiments.*

24. *Swietenia Mahogany.*—In *East Cuddapah* only 13 plants are now alive. In *Nellore* seeds germinated well and the plants at Sriharikota are doing well. In *North Arcot* the plants put out in Tiruvallam and Kilminnel plantations as well as those in the Gudiyattam range are not doing well, while those in Tiruvannamalai range are in good condition. In *South Arcot* the plants in Cuddalore and Kallakurchi ranges are doing well. In *Chittoor* the plants in the Whiteside garden are thriving well. Seeds sown during the year did not germinate. In *South Salem* 200 seeds were sown in Harur Range office compound, of which 7 germinated and only 3 are surviving. In *Trichinopoly* 16 trees in Alambadi, 22 in Annagarampet and 10 near Sangatampatti bungalow continued to thrive. Seeds sown in *Guntúr district* did not germinate.

Swietenia macrophylla.—In *East Cuddapah* 2 lb. seeds were sown at the close of the year and are germinating. Twenty-nine plants of previous year's planting are in existence but not doing well. In *Nellore* and *North Arcot* the plants of last year are doing well. Seedlings have been raised in *Chingleput*. In *South Arcot* 73 trees varying from 4" to 18" in girth in Ramapuram reserve are doing well. In *North Salem* 2 lb. of seeds were sown at the close of the year in Kadyampatty and Sanyiasimalai nurseries. In *Trichinopoly* the plants raised in Lalapet nursery were put out and are doing well being from 1' to 2' in height.

Acacia auriculiformis.—In *North Cuddapah* a nursery was started and 50 plants raised. In *Nellore* the seeds sown have germinated and are doing well so also the plants raised last year. In *South Arcot* the surviving plants in the Coast casuarina plantations are doing well and seedlings have been raised in Periakuppam plantation.

Eucalyptus (*E. globulus*).—In *North Cuddapah* a nursery was started and 250 plants raised so also in *East Cuddapah* where there are 175 seedlings. The trees in the Palmanér plantation *Chittoor district* are doing well. In *North Salem* seeds sown in nurseries have germinated and the existing plants in Sanyasimalai reserve (*E. marginata, E. rostrata and E. resinifera*) are doing well.

Phœnix dactylifera.—In *Chittoor* and *North Arcot* no improvements were noticed in the existing plants and no more were put down.

Jacquarandus.—In *Chittoor* the existing plants are doing well.

Para and Ceara rubber.—The plants existing in *North Arcot* are in good condition.

Grasses.—Three species of Australian grasses were tried in *Chingleput*, of these only Rhodes grass germinated and came up well. In *Nellore*, 10 lb. of Rhodes grass were sown and did well.

Divi Divi.—The existing trees in *North Arcot* yielded 100 lb. of pods.

Sissoo.—In *Nellore* seeds were sown and seedlings are doing well, so also the plants raised last year. In *Trichinopoly* some of the plants were destroyed by parasites and the few cuttings in Maradur are thriving.

Teak.—Seedlings raised in Lalapet nursery *Trichinopoly* were planted out and are from 2' to 3' high.

5. Exploitation.

(a) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

25. In *North Arcot* district the current year's coupes of casuarina of the Tiruvallam, Kilminnel, Ammundy and Virinchipuram working circles were felled preparatory to replanting; in *Nellore* compartment No. 3 of Dugarajapatam and No. 2 of Varini were sold and fully felled over; in *South Arcot* 26 acres of casuarina plantation in the Akshikadu reserve and 252·84 acres of the Coast casuarina plantations were clear felled departmentally; in *Guntúr* clear fellings of mature casuarina were carried out in Pandillopalli reserve, as well as in coupe IV of about 200 acres in Repalli Mangrove working circle.

(2) *Selection Fellings.*

26. Selection fellings were carried out in two bamboo coupes (12,324 acres) and 15 timber coupes (4,184 acres) and in removing 500 dead and dying palmyra trees in Idupulapaya plantation in *North Cuddapah* district; over an extent of 16,086 acres in *East Cuddapah*; in 4 bamboo coupes and for collection of 5,520 cubic feet of sandalwood, 1,214 cubic feet of agricultural implements and 1,625 cubic feet of miscellaneous timber in *North Arcot*; in bamboo blocks and for collection of 3,060 cubic feet of red sanders, 536 cubic feet of sandalwood and 1,206 cubic feet of miscellaneous timber in *Chittoor*; in one compartment of a casuarina plantation and in one bamboo coupe in *South Arcot*; in *North Salem* for the extraction of sandalwood and for the supply of agricultural implements to several depots and for supply of timber to Remount depot at Mattigiri; in seven bamboo blocks in *South Salem*; in extraction of bamboos from Solamathi reserve, 325,200 cubic feet of fuel from Vaiyampatti coupes and 105 tons of babul fuel from Udaiyárpálaiyam range and Perambalúr tank-bed in Trichinopoly; and in cutting babul in *Guntúr*.

(3) & (4) *Improvement and Coppice Fellings.*

27. Sixteen fuel and charcoal coupes in *North Cuddapah*, and 21 coupes in *East Cuddapah*, were worked as coppice with standards, while babul trees in two tank beds in *North Cuddapah* were felled; coppice with standard fellings were carried out in a number of working circles in *Nellore*; 13 contract coupes (1,387 acres) and 52 departmental coupes (4,796 acres) in *North Arcot*, 7 coupes on contract and 44 coupes departmentally in *Chittoor*; 6 departmental coupes (333 acres) and 36 contract coupes (3,204 acres) in *South Arcot*, all fuel coupes in *North* and *South Salem*. 31 contract coupes in five ranges and departmental coupes in the other two ranges in *Trichinopoly* and one contract coupe and three departmental coupes in *Guntúr* were worked as coppice with standards, while two reserves in *Chittoor*, a few of the timber coupes in *South Salem*, and bamboo blocks in *North Salem* were treated under improvement fellings and five coupes in *Guntúr* under simple coppice.

(5) *Unregulated Fellings.*

28. In *North Cuddapah* the system of issuing permit for removal of timber in localities where the very small demand made it impossible to systematic fellings was continued; in Trichinopoly it was restricted to fuel in two ranges. Bamboos were removed by permit holders in *North* and *East Cuddapah* and *South Salem*. Permits were issued for unreserved lands to meet local consumption in *Chingleput*, *South Arcot*, *North* and *South Salem* and *Trichinopoly*.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

29. Minor produce was generally leased out with the following exceptions:— Divi-Divi pods in *Vellore East* of *North Arcot* district and in *Udaiyárpálaiyam* rang. of *Trichinopoly* district and miscellaneous produce in *Sríharikóta* forests of *Nellore* district, were collected departmentally. Permits continued to be issued in *North* and *East Cuddapah* and *South Arcot* for stone and road materials, in *Chingleput* for manure leaves, palm leaves and velal grass and in *North Arcot* and *Chittoor* for manure leaves.

(2) *Extraction of Fodder.*

30. With the exception of certain areas leased out in *East Cuddapah* free removal of fodder and thatching grass was permitted in *Cuddapah* as usual. The same concession was allowed in other districts except *North Salem*, *South Salem* and

Guntúr; permits were issued for removal of grass in parts of *Nellore*; three coupes in *Sattenapalle* range of *Guntúr* district were leased out for removal of grass and permits were issued in other localities.

(3) *Hay-making.*

31. In North Cuddapah 40 tons of hay was collected at a cost of Rs. 215; of which 32 tons were sold in auction for Rs. 107, but the operation showed a loss as there was no demand owing to extensive free removal of grass. In East Cuddapah 58 tons were made at a cost of Rs. 1,273, which includes cost of transporting by carts and pack bulls and railing 51 tons to Madras. Of this quantity, 51 tons were supplied to the Station Supply Officer, Madras, for Rs. 963 and 6 tons were used in Pullampet range for feeding Government bulls. In North Arcot 1. tons were collected and sold to the Military department. Of the 11 tons collected in Chittoor, 6 tons were supplied to the Station Supply Officer, Madras. In North Salem 2,314 maunds of hay were collected at a cost of Rs. 184 and sold to the Remount depot at Mattigiri for Rs. 386. Three hundred and ninty-seven maunds were prepared in South Salem and remained undisposed of for want of demand. In Guntúr district 49.5 tons of hay were made in Bollapalli reserve at a cost of Rs. 1,937, 29 tons at Kondavid reserve at a cost of Rs. 146 and 19 tons in the Sattenapalle range at a cost of Rs. 107. Owing to there being very little demand, only 82 tons were sold during the year. Hay operations were not conducted in other districts for want of demand and in several districts in which operations were conducted they were worked at a loss.

(4) *Grazing.*

32. The revenue derived from "grazing and grass removals" was Rs. 3,55,471, a falling off of Rs. 69,360 or 16·3 per cent. The decrease was largely due to the fact that compounding fees in illicit grazing cases which had hitherto been credited under this head in several districts were credited during the year to V (*a*), to the sale of goats by the ryots in large numbers owing to the curtailment of provision for goat browsing and to the slight increase in kancha area in *Nellore*, to the failure of rains and want of fodder and to the throwing open to free grazing a large number of conservancy blocks in Chingleput. With regard to carrying out the orders of Government that the number of cattle should be limited to the grazing capacity of reserves, proposals were submitted during the year from several districts to the Board and the subject is receiving attention.

(*b*) AGENCY OF EXPLOITATION.

(i) *Departmental Agency.*

33. Departmental agency has continued to be the chief agency for working timber and fuel in all districts. In *North Cuddapah*, *Chingleput* and *Trichinopoly*, however, 4, 19 and 31 coupes were respectively sold in auction on lump sum contract system. The total quantity of timber and fuel, the number of bamboos and the value of the minor produce extracted departmentally were respectively 51, 2·6 and 2·1 per cent. of the total outturn of each through all agencies. The total value of the disposals of the year was Rs. 6,36,959 against Rs. 6,86,701 in the previous year.

Timber + 4,539 *cubic feet*—due chiefly to more extensive departmental operations in *Guntúr*.

Fuel — 824,318 *cubic feet*.—The decrease is due to the introduction of contract system by leasing out fuel coupes in *North Cuddapah*, *Chingleput* and *Trichinopoly* and to the supply of fuel having been regulated in accordance with the demand in *Guntúr*.

Bamboos + 70,958 was due to departmental operations being conducted on a larger scale in Dharmapuri and Hosúr ranges of *North Salem* division.

Minor produce — 17,772 *maunds*—due to decrease in collection of fodder grass including hay for want of demand in several districts.

(ii) *By Purchasers.*

34. The total value of sales was Rs. 3,45,296 for major produce including bamboos and Rs. 6,47,096 from minor produce against Rs. 3,91,039 and Rs. 7,95,761 respectively in the previous year. The decrease in the major produce was due to the casuarina coupes sold during the year in *Nellore* district not being so valuable as those sold during the previous year and to compounding fees in felling cases which were formerly credited under this head having been transferred to V (*a*) and the decrease under minor produce was due to fall under grazing as already explained.

in paragraph 32 *supra*; it was due in *North Cuddapah* to triennial leases and to collection of two instalments in advance, to the reckless bidding at amroy sales in the previous year and to the exclusion of babul pods from amroy sales during the year; in *South Salem* to the lower prices realised in the sale of minor produce and manure leaves; in *Trichinopoly* to the termination of avaram bark leases, to poor prices realised on leases of usufruct of trees, non-sale of minor produce in Pachamalais and the exclusion of babul pods from minor produce contracts; and in *Guntúr* to the low prices realised chiefly in margosa seeds, soapnuts and tangedu bark. In *Chingleput* 33 coupes were advertised for sale and offers for 19 coupes were accepted. In *South Arcot* 36 coupes aggregating 3,204 acres were sold on contract. In *Trichinopoly* 31 coupes were leased out which accounted for the large increase in the outturn of fuel and the management of the town depot (West depot) was transferred to a contractor. The sales of confiscated produce were Rs. 1,986 against Rs. 2,985 in the previous year.

(iii) *Rights and Privileges.*

35. These are allowed for grazing and the value of produce removed under this head is estimated to be Rs. 298 against Rs. 741 in the previous year.

(iv) *Free Grants.*

36. The estimated value of free grants was Rs. 7,961 against Rs. 7,055 in the previous year; the increase was due to free grant of 48,821 cubic feet of fuel to the Madras Glass Works Company. The grants were made chiefly to poor ryots for re-building houses and huts destroyed by fire.

37. The following abstract shows the quantity and value of produce removed by Right-holders, free grantees, etc., as required in Board's Proceedings, Forest No. 185, dated 26th July 1911:—

—	Timber.		Fuel.		Bamboos.		Grass and grazing.	Other minor produce.	Total value.
	Cft.	Value.	Cft.	Value.	No.	Value.	Value.	Value.	
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
Right holders	..	..	..	..	..	..	98	200	298
Free grantees	47,657	5,901	53,036	1,141	28,415	318	16	319	7,695
Grants at reduced rates.	..	..	..	..	..	..	266	..	266
Total ..	47,657	5,901	53,036	1,141	28,415	318	380	519	8,259

(*c*) Outturn and Sources of Forest Produce.

38. The following abstract gives the total outturn of timber and other produce collected by different agencies during 1909–10 and 1910–11 from reserved forests and from reserved and unreserved lands:—

Agency of exploitation.	Timber in cubic feet including sandalwood.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce (including grass and grazing). Gross value in rupees.	
	1909–1910.	1910–1911.	1909–1910.	1910–1911.	1909–1910.	1910–1911.	1909–1910.	1910–1911.
							Rs.	Rs.
By Government agency.	*96,224	100,763	6,737,593	5,913,275	421,130	492,088	18,519	14,395
By purchasers (including confiscation).	1,283,487	1,100,941	3,124,425	4,672,727	17,440,390	17,908,434	7,96,263	6,47,096
By right holders, etc. ..	..	..	..	..	..	..	741	298
By free grants	58,349	47,657	667	53,036	27,970	28,415	901	601
Total ..	1,438,060	1,249,361	9,862,685	10,639,038	17,889,490	18,428,937	8,16,424	6,62,390

* The difference of 132,000 c. ft. is due to the fact that while the actual outturn of timber in Guntúr during 1909–1910 was only 14,339 c. ft. it was put down as 146,339 c. ft. owing to the figure '6' having been wrongly inserted between '4' and '3' and the increase was explained by the Collector as being due to more extensive operations in the previous year's (1909–1910) district report.

The results show a decrease under all heads except fuel and bamboos. The variations have already been explained. The rates for grazing fees levied in several districts are shown in Form No. 74. The number of animals licensed to grazing on payment was 1,986,744 against 2,272,577.

CHAPTER III.—FINANCIAL RESULTS.

39. The financial results of the year are compared with those of the last year and with the previous quinquennial average in the following table:—

—	1910-1911.	1909-1910.	Average of preceding five years.
	Rs.	Rs.	Rs.
Revenue	17,70,282	*19,18,620	14,67,995
Expenditure—			
A.—Conservancy and Works including "Refunds."	6,62,398	7,38,010	4,70,314
B.—Establishments . ..	4,33,837	4,46,916	3,59,318
Total expenditure ..	10,96,235	*11,79,926	8,29,632
Surplus	6,74,047	7,38,694	6,38,363

*Includes those for Kadiri Range.

The year's revenue decreased by 7·7 per cent. and the expenditure by 7·09 per cent. and the net revenue was 38 per cent. of the gross receipts. About 36 per cent. of the expenditure was devoted to the up-keep and improvement of the forests and 64 per cent. to exploitation, etc.

The value of timber and other produce at the sale depots at the close of the year amounted to Rs. 1,00,447 or Rs. 54,440 less than it was at the close of the previous year.

The outstanding revenue at the beginning of the year was Rs. 1,40,674 and the value of sales during the year amounted to Rs. 17,72,440. Out of the total of Rs. 19,13,114, Rs. 17,70,282 were collected, Rs. 440 written off leaving an outstanding balance of Rs. 1,42,392. Of this Rs. 1,01,718 falls due after 30th June 1911.

The important variations under the several budget heads of revenue and expenditure as compared with the previous year are explained below:—

Receipts.

(i) *By Departmental Agency.*

Timber —Rs. 7,294. Due chiefly to less quantity transported and to low prices obtained in *North Cuddapah* and to late collection and want of proper demand in *East Cuddapah.*

Fuel— Rs. 9,366. Caused chiefly by the less quantity of fuel received from *Kurnool* for sale in *Guntúr* and to limited demand obtained from railway in *North Salem*, but this was partly counterbalanced by increase chiefly in *East Cuddapah* and *South Salem* from increased departmental operations for supply to depots.

Bamboos — Rs. 864. Attributed chiefly in Trichinopoly to non-working of Pachamalai bamboos, but this was made up by increase chiefly in North Salem from increased departmental operations to meet the demand in sale depots.

Sandalwood — Rs. 20,130. Due chiefly in *North Arcot* to an arrangement made with Messrs. Pierce Leslie & Co. to sell the wood in the Home market instead of locally, and in *South Arcot* to less quantity exploited in Javadi Hills. But this was counterbalanced by increase chiefly in North Salem from larger number of dead and overmatured trees exploited and sold in England through the Agency of Messrs. Pierce Leslie & Co., and in *South Salem* from sale of last year's collections.

Minor Produce — Rs. 12,088. Due principally to want of demand for hay in *Guntúr* and *East Cuddapah* and to low prices obtained for certain produce in *Nellore.*

(ii) *By Purchasers.*

Timber — Rs. 12,275. Due to the composition fees collected under the head being credited to head V (*a*) under orders of Government and to the fewer applications for darkhast received in several districts than in the previous year.

Fuel + Rs. 9,997. The increase is due to sale of large number of coupes to contractors in *Trichinopoly* instead of working them departmentally, but this was partly reduced chiefly in *Nellore* due to low prices obtained for casuarina coupes sold and in *North Arcot* to fewer coupes leased to contractors.

Bamboos — Rs. 16,258. Due to the lease amount of *Salem West* Range collected in advance having been credited in the previous year and to the leasing out of less number of blocks in *South Salem.*

Grazing — Rs. 69,360. Decrease occurred in almost all the districts due to the crediting of revenue to V (*a*) in *North* and *East Cuddapah* and to unfavourable season and also to the mortality among cattle and sale of sheep and goats in large numbers in *Nellore*; to the closure of certain reserves owing to a large number of fires in *North Arcot.*

Other Produce — Rs. 68,964. Occurred in all the districts except *North Salem* and was chiefly noticeable in *North Cuddapah*, *North Arcot* and *South Salem.* In *North Cuddapah* it was due to triennial tangedu lease amount due for the year having been collected in advance and to the reckless bidding in previous year at amroy sales; in *North Arcot*, to want of good demand for tanning barks; and to low prices realized in *South Salem* and *Guntúr.*

(iii) *Miscellaneous (including confiscated drift and waifwood).*

Revenue + Rs. 58,264. Chiefly due to the crediting of all compounding fees under the head.

EXPENDITURE.

A.—Conservancy and Works.

The expenditure under this head was less by Rs. 70,612 than in the previous year and the decrease was chiefly due (1) to the curtailment of works in *Guntúr* and to the less receipt of fuel from *Kurnool*; (2) to smaller expenditure on departmental fuel operations in *Trichinopoly* and *North Salem*; (3) to less amount spent on roads and buildings in *North Salem* and *Chingleput*; (4) to the saving caused under feed and keep of cattle by the sale of bulls and carts in Trichinopoly; (5) to less expenditure incurred on fire protection operations in *East Cuddapah* and to the discontinuance of grain compensation allowance in several districts.

B.—Establishments.

The less expenditure of Rs. 13,079 was chiefly due to changes among officers.

CHAPTER IV.—ADMINISTRATION.

40. Mr. T. P. Peake was in charge of the circle throughout the year.

41. *New district forest charges.*—The territorial changes during the year were the transfer of the Kadiri taluk of the old South Cuddapah division to the Anantapur district of the Northern Circle, the remaining taluks of Madanapalle and Vayalpad together with Chittoor, Chandragiri, and Palmanér taluks of the North Arcot district being formed into the new Chittoor district. Tiruvannámalai taluk of the South Arcot district and Tirupattúr taluk of Salem district were added to the North Arcot district. The Námakkal taluk of the South Salem division and the Karúr taluk of the Coimbatore district were transferred to the Trichinopoly district.

42. *New ranges.*—No new ranges were formed during the year.

43. *Conduct of the executive establishment.*—The conduct of the establishment is reported to have been unsatisfactory in Nellore, Trichinopoly, North Arcot and Chittoor and fairly satisfactory in other districts, while that of the protective staff still continues to be unsatisfactory.

Removal from service.—One probationary ranger and six deputy rangers were removed from service or had their probationary periods terminated. The name of one ranger in Trichinopoly was struck off the list for absconding when serious charges of irregularities were pending against him.

Resignations.—One ranger and two deputy rangers resigned.

Reductions.—Two rangers were reduced for bad work; one acting ranger was reverted to deputy ranger for certain irregularities and the promotion of one ranger was stopped. One deputy ranger was reverted to forester for reporting a false case and one reduced temporarily. Seven foresters were reduced to forest guards.

Suspensions.—Two rangers, one deputy ranger, and nine foresters were suspended and one ranger in Guntúr was suspended and is being prosecuted criminally and has been committed to take his trial.

Specially commended.—The work of rangers S. Vasudeva Reddi, A. Subba Rao, Makkeri Sahib and A. Hanumuntha Rao, is reported by their respective District Forest officers to have been very satisfactory.

44. *Ministerial establishment.*—The conduct of the ministerial establishment was satisfactory in North and East Cuddapah, Nellore, Chingleput, South Arcot and North Salem ; bad in North Arcot ; and far from satisfactory in South Salem and Guntúr.

45. *Health of the establishment and casualties.*—The health of the establishment was very bad in North Cuddapah, bad as usual in North Arcot and Chittoor, Sriharikotta and parts of Coast range in Nellore and in the Pachamalais in Trichinopoly. One forest guard on the Javadi Hills, North Arcot, one tannadar and one depot watcher in North Cuddapah, and three subordinates in Trichinopoly died.

46. *Relations between Revenue and Forest officials*—continued to be cordial. The reports of North Arcot, Trichinopoly and Guntúr do not furnish information regarding attendance of the jamabandi camps; such attendance was carried out in North Cuddapah, Chingleput and South Arcot by the District Forest officers and in the rest by range officers and no complaints were brought to notice, nor did any question of importance on forest matters come up for consideration. In *Chingleput* the Collector has submitted to the Board certain proposals under which it is proposed that a local panchayat shall undertake the management of a certain portion of "Oragadom" Reserved Forest for their village requirements. The experiment, if sanctioned, will be watched with interest. The Forest Commissioner accompanied by the Collector of Chingleput, the present Acting Conservator, and District Forest Officer, inspected the above reserve in July 1911 and were all of opinion that the Collector's proposals afford an excellent opportunity to the local panchayat of management of showing what it can do. It rests with the panchayat to make the experiment a success or otherwise.

47. *Service Books* are reported to have been verified and maintained in all the districts.

48. *Conservator's inspections.*—All the districts were visited and all District Forest offices were inspected except Chittoor which was formed only from April 1911. The North Cuddapah office was inspected twice in July 1910 and May 1911.

49. *Touring of District Forest officers.*—All the District Forest officers except those of Nellore, Guntúr, North and South Arcot have spent more than six months in camp. The District Forest Officer, South Arcot, has camped the required period of six months. The short touring in Nellore was due to the absence of the District Forest officer on leave and to the charge being held by the District Forest Officer of Chingleput for 22 days in July 1910, and in Guntúr to changes in the District Forest officer during the first half of the year and to the charge being held by the District Forest Officer of Kistna. *In North Arcot*, the deficiency amounted to three days only.

50. *Inspection of Range offices.*—All the Range offices were inspected except one in Nellore, four in North Arcot (old) owing to changes in the charge of the district in the latter half of the year and one in *North Salem.* Depots were inspected in all districts.

51. *Audit of accounts of the District Forest offices.*—The accounts of all the District Forest offices were audited by the special staff of Inspectors of the Accountant-General's office and the results were reported to be fairly satisfactory.

52. *Imperial Forest College, Dehra Dun.*—During the year, one stipendiary student for appointment in the Provincial service, two probationary rangers and five deputy rangers were deputed for training as Government students. Two probationaries for Provincial service returned after undergoing the third year's course and were appointed Probationary Extra Assistant Conservators on Rs. 150 from the date of their passing; one of them was posted to Southern Circle. One ranger who stood first and obtained Honours certificate was deputed for the third year's course, one ranger and six deputy rangers returned with rangers' certificate.

53. *Vernacular Training Schools.*—Ten (including two from old South Cuddapah) forest guards were deputed to the vernacular training school at Giddalur and nine forest guards to the school at Sethumadai of whom one fell seriously ill and returned.

54. *Work and services of Superior Officers.*—The following remarks have been made by the Collectors on the work of District Forest officers:—

Cuddapah—By Mr. J. G. D. Partridge, North—"Mr. J. A. Daly held charge "of the district throughout the year. He does very extensive touring and is doing "his best to improve the working of the department. I am not satisfied with the "rangers of Proddatur and Cuddapah." *East*—"I must repeat what I said formerly "with regard to M.R.Ry. C. M. Maduranayakam Pillai Avargal. His work seemed to "be careful and his ideas sound, but his health had become rather poor before he left "the district, and possibly his local inspection was not as thorough as it had been." *Nellore—By Mr. R. Ramachendra Rao.*—"I understand from my predecessor that "the late Mr. Nallaswami Nayudu who was in charge of the district for the best "part of the year under report discharged his duties efficiently and with tact. Mr. "Woutersz has only recently joined, but has already shown signs of energy and I "hope will show better results in the current fasli than those of the past." *Chingleput—By Mr. A. L. Vibert.*—"I am sorry to lose the services of Khan Sahib Syed "Burhanuddin Sahib Bahadur. We have done a good deal of work together and I "have found him keen and conscientious." *South Arcot—By Mr. M. Aziz-ud-din Sahib.*—"The work of M.R.Ry. Rao Bahadur V. Alwar Chetty Garu and M.R.Ry. "K. R. Venkataramana Aiyar Avargal, as far as it came to my notice has been satis-"factory." *Salem—By Mr. L. E. Buckley.—North*—"Mr. F. C. L. Cowley-Brown "was in charge of the district for more than three quarters of the year and worked "with his usual energy." *South*—"Mr. Wimbush was District Forest Officer for two "months and Mr. Clear for the rest of the year. There is no doubt South Salem is a "heavy district and it is difficult for a young officer to run. Both Messrs. Wimbush "and Clear did their best to tackle a difficult task, but they were handicapped by "arrears of work left by the incompetence and dilatoriness of a head clerk who has "been removed." *Trichinopoly—By Mr. E. W. Legh.*—"M.R.Ry. S. Kuppuswami "Chettiyar acted as District Forest Officer for six weeks. During that time he made an "excellent report on the Kadavur zamin forests at the request of the Court of Wards. "Later as Extra Assistant Conservator he was very helpful in arranging for the free "grants to the sufferers by the Perambalur fire. He strikes me as an officer of "considerable ability and also deserving of confidence both in his relations with his "subordinates and with the public. Mr. C. Du.Pre Thornton is a most active and "energetic officer and full of zeal for his department. He sent me recently a very "good report on the padugais in the newly added taluks which cost him a good deal of "hard work to prepare. The only occasions I have had for differing from him have "been in appeals which came before me against his orders passed on subordinates or "on contractors. It is possibly his zeal which makes his orders at times somewhat "severe It has not been possible always to support them on a careful scrutiny of "the facts." *Guntur—By Mr. S. W. G. I. MacIver.*—"The Board and the Conser-"vator are aware that the condition of the office was not satisfactory; since his arrival, "Mr. Scot has worked in a most energetic and efficient manner to put matters "right."

The Acting Conservator makes no remarks having only joined the Circle after the close of the Forest year under report.

CHAPTER V.—GENERAL.

55. *Realization of revenue from the usufruct of toddy-yielding trees on Government wastes and poramboke lands.*—The revenue realized is Rs. 31,367 against Rs. 33,505 of last year, a decrease of Rs. 2,138. In *North Cuddapah* and *North Salem*, the fixed fee system was in force, the revenue collected was Rs. 1,862 and Rs. 1,596 against Rs. 2,143 and Rs. 1,748, respectively. In *South Salem* the usufruct of such of the trees as were not taken up under the fixed fee system were leased out as usual and the revenue realised under the fixed fee system and leasing was Rs. 313 and Rs. 2,363 against Rs. 380 and Rs. 2,443 in the previous year, respectively. There was a decrease in all districts except *East Cuddapah* and *Trichinopoly* where the revenue rose to Rs. 2,090 and Rs. 458 against Rs. 1,915 and Rs. 197 of last year, respectively.

56. *Measures adopted to encourage the growth of manure leaf-yielding trees and shrubs.*—In *Chingleput*, about 1,300 acres in coupes closed to grazing and blank areas in the reserved forests of Chingleput and Tiruvallúr ranges, were sown with seeds of various species. The germination is reported to have been good, but owing to absence of rains practically all the seedlings died out. In *Chittoor* about 40 acres were sown in blank areas of two reserves with *Cassia auriculata*, *Dodonæa viscosa*, and *Tephrosia purpurea* with successful results. In *Trichinopoly* owing to the absence of demand the operations were carried out in the Musiri Range, where seeds of suitable species were sown and proved a failure owing to drought. In *East Cuddapah* about 168 acres were ploughed and sown broadcast, in Pullampet, Badvel and Sidhout Ranges, with *Pongamia glabra*, *Cassia auriculata* and *Tephrosia purpurea Dodonæa viscosa* and other species. In *North Salem*, about 32 acres in reserves were ploughed and sown with seeds of *Dodonæa viscosa*, *Pongamia glabra*, *Tephrosia*, etc., species with unsatisfactory results. In Krishnagiri Range, 25 acres sown in 1906, were sold and realised Rs. 37 only. In *South Arcot*, 509 acres in blanks of felled areas were sown with seeds of manure leaf yielding species. In *North Cuddapah*, 25[illegible] acres in Cuddapah Range, 220 in Proddatur Range and 25 acres in Ráyachóti Range, were sown with suitable species. The seedlings are reported to be all doing well, except in Ráyachóti Range, where, owing to the operations having been conducted late it has proved a failure. In *Nellore* and *Guntúr* owing to the absence of demand no operations were conducted. Under G.O. No. 1605, dated 29th May 1911, such operations as these are to cease and the work of the Forest Department in this connection is henceforward to be limited to the production of seed of manure leaf yielding plants. The concession offered to ryots, of growing manure leaf species in poramboke lands on the cowle system was not taken advantage of in any of the districts.

Rules under the Forest Act.

57. *Timber Transit Rules.*—The rules for transit of timber and sandalwood are reported to have worked satisfactorily in all districts where they are in force. The revised transit rules for Guntúr were sanctioned during the year and brought into force from 1st April 1911.

58. *Rules under Section 26 of the Forest Act.*—The privileges allowed under these rules were generally availed of by the people and no complaints or abuses were brought to light.

59. *Inventory of valuable stock.*—The registers are reported to have been maintained and verified in all districts.

60. *Rain-gauges.*—In *North Cuddapah* and *Chingleput* there are no rain-gauges. In all other districts, except *North Arcot*, readings are reported to have been properly recorded. In *North Arcot*, in one station the gauge was stolen and no information is available for the last five months of the year. In others, the readings were taken by Forest Guards and they are reported to be very inaccurate.

61. *Supply of forest produce to meet the wants of the people.*—In *North Cuddapah* permits were issued to a small extent for removal of forest produce from located areas in reserved forests in places where no depots were near. In *East Cuddapah* fuel chits were issued to villagers for fuel stacked in forests. In *Chittoor* permits were issued for manure leaves in all ranges, for bamboos in three ranges. Free removal of grass in head loads was allowed for *bonâ fide* domestic purposes. In *Chingleput* permits for classified timbers were issued to meet demands of ryots. Fuel was sold to villagers from coupes felled departmentally. Permits were also issued for manure leaves from area open to grazing, also for palm leaves and date ribs. In *North Arcot* permits were issued for manure leaves in all ranges, for bamboos from areas under sanctioned working plans. Grass was allowed free for *bonâ fide* domestic purposes. In *North Salem* permits were issued for removal from unreserves to villages far removed from reserves, and there was no demand for free removal of grass, and in *Trichinopoly* permits for minor produce were issued at stations located at convenient centres. The sale of timber, fuel, bamboos, and agricultural implements in departmental depots at reasonable rates have proved useful. Steps are being taken to transfer the working of fuel coupes to private agency, with a view to relieving the subordinate staff of their present work in connection with large departmental fuel operations and maintenance of depots and to enable them to devote more time to forest protection and their more legitimate duties.

62. *Sale of fuel at the edge of the forests.*—In *North Cuddapah* fuel is sold at the edge of the coupes to resident ryots and bullmen on a large scale. At the close of the year four fuel coupes were handed over to contractors. In *North Salem* attempts were made to obtain contractors but it is reported that no reliable trained contractors were forthcoming. This is likely to be the case until the district takes some in hand and trains them. In *Nellore* attempts were made in three reserves, and in one of them 21 stacks were sold in the forests and there is a likelihood of the demand increasing. In *South Arcot* produce was as usual sold at the edge of the forest. In the case of casuarina, the bulk of the fuel is felled and stacked departmentally and sold to contractors. Coupes were also sold standing. In *Chingleput* ten coupes were leased out to contractors, and in addition 495 tons of fuel were sold in the forests. In *Trichinopoly* 348 tons of fuel were sold in the forest and 31 coupes were leased out to contractors. In *East Cuddapah* five depots were leased to contractors. In *Guntúr* 86,000 cubic feet of fuel in Bápatla range and 4,320 cubic feet in Guntúr range were sold in the forests. In *Chittoor* 17 coupes were felled departmentally and fuel sold in the coupes.

63. *Arrangements made for the transfer of sale depots to private agency.*—In *North Cuddapah* four depots were transferred. In *East Cuddapah* five were transferred and it is hoped to transfer some more at an early date. In *North Salem* ten depots were leased against eight in last year. The contractors were bound down to sell at fixed rate except in the Bangalore depot. In *Nellore* three depots were leased and there is a likelihood of leasing two more. In *South Arcot* owing to the sale of coupes standing and the springing up of private depots, two Government depots were closed and another will soon be closed. In *Guntúr* the question is still under correspondence. In *Chittoor* two depots were transferred to contractors and one coupe also was sold to a contractor. In *South Salem* three fuel depots and one coupe were transferred to contractors.

64. *System of holding the villages adjacent to particular forests responsible for the protection of these forests against illicit grazing or other offences on a large scale.*—In *North Cuddapah*, the Collector has published a notice defining reserves and villages and warning the villagers concerned. In *East Cuddapah*, the District Forest officer reports that a notice has been published in the District Gazette, defining villages and blocks. The notice is issued in the name of the District Forest officer and it is not mentioned if the Collector's approval was obtained. This is incorrect procedure and such notices should be approved and signed by the Collector. In *Nellore* nothing has been done. In *Chingleput*, the District Forest officer reports that there are no instances of organized illicit grazing or other offences on a large scale and hence no steps were taken to warn the villagers. In *Chittoor*, the District Forest officer reports that his proposals were pending sanction of the Collector. In *South Arcot*, the District Forest officer reports that lists were prepared, with the Collector's approval and sent to Revenue Divisional officers with a request to warn the villagers and that the Divisional officer, Cuddalore, has done so. In *North Salem*, the District Forest officer reports that in one Range (Salem West) 9 reserves were notified by the Collector for protection, that no notice was published in the District Gazette, but it was communicated to Revenue Divisional officers with a request to instruct Tahsildars to warn villagers. As regards other ranges, information was being collected. In *Trichinopoly*, the Collector has reported that no forest or a portion thereof was closed during the year on the ground that the villagers responsible to detect forest offences neglected their duty. Revenue officers were, however, advised to adequately warn the villagers concerned. In *Guntúr*, the District Forest officer reports having taken no action and pointed out the difficulty that would arise in fixing responsibility on villagers. He promised to deal with the subject when submitting proposals for the grazing possibility and proposals are awaited. In *North Arcot* and *South Salem*, no information has been received as to whether any action has been taken.

65. *Cultivation in reserved forests.*—In *Trichinopoly* the excess found on resurvey over areas admitted at settlement was treated as leases and assessment at local rates collected. In *South Arcot* eight acres in a casuarina plantation were leased for cultivation at a rental of Rs. 10-8-0. In *South Salem*, *East Cuddapah*, *North Salem*, there were no fresh grants, only the renewal of those given in previous years.

66. *Suits.*—In *North Cuddapah* the amount referred to in the suit pending last year had to be written off as the contractor was declared insolvent. In *Nellore* the suit referred to in the last year's report is still pending in the High Court. In *Guntur* the property of contractor Narayana Rao, against whom a decree in favour of Government for Rs. 255–4–0 was obtained, has been attached; the amount has not been recovered owing to other decree-holders.

67. *Live-stock.*—In *South Salem* nine pairs of bulls were purchased. In *North Salem* of the 42 pairs of bulls and three pairs of buffaloes, five bulls died and eleven were sold during the year being found unfit. At the close of the year there were 34 pairs of bulls and three pairs of buffaloes; all reported to be in good condition. In *East Cuddapah* there were five pairs of bulls at the beginning of the year, and two pairs were purchased during the year. One pair was sold being unfit for further work and one bull died, leaving eleven bulls at the close of the year. The bulls that were in Trichinopoly were all sold.

68. *Hill tribes.*—In *Trichinopoly* the Malayalis in the Pachamalais were given certain concessions in respect of forest produce and grazing and in return assisted the department in both general and fire protection. Those on the Kollimalais of Namakkal taluk persisted in clearing and firing lands for shifting cultivation, without leave or license. It is reported that they have been made to agree to pay a nominal fee of rupee 1 per acre for the lands under cultivation and to give up shifting cultivation.

69. *Prospecting licenses.*—In *North Cuddapah* no new areas were leased out. One lease was cancelled and one expired by 5th June 1911. The lease over an area of 675·60 acres is in force and it is under contemplation to cancel it as no operations have been started yet. In *East Cuddapah* and *Trichinopoly* no licenses were granted.

Mica and Mica Mines.

70. *Applications.*—Forty-eight applications were received during the year under report in addition to the 14 pending disposal at the end of the previous year. Forty-two of these were disposed of during the year leaving a balance of 20 at the close of the year. Most of the applications were for prospecting licenses, of these one was for the new mineral called "Samaraskite" and the other for China clay.

Mines in Government lands (State mines).—There were 45 sanctioned mines at the end of June 1910. Of these, the lease of one expired and three were relinquished leaving a balance of 41 mines. Two mines were added during the year thus making a total of 43 working mines at the end of June 1911. Three exploring licenses and 12 prospecting licenses were also issued during the year. There was no satisfactory work in many of the mines during the year. No active steps were taken to take over possession of the mines not worked by M.R.Ry. A. Subba Nayudu pending final decision of Government on the late Collector's reference for a reconsideration of their order. Only five mines were worked satisfactorily and without break during the year.

Patta land mines (shared mines).—To the 24 mines at the commencement of the year one was added during the year. None of the mines worked well during the year.

Mines in permanently-settled estates (private mines).—All the ten mines are in Shrotriem lands; and the Kali Chedu mine in the Venkatagiri zamindari produced 128,218 lb. 12 oz. of mica worth Rs. 31,567–10–0.

Illicit mining.—No cases of illicit mining were brought to notice during the year.

Outturn and royalty.—There was increase both in the output and royalty realised during the year as compared with the previous year as noted in the margin. The increase is due partly to the working of the mines which remained idle in the previous year and partly to the systematic work turned out in two mines. The best mines in the district were not worked for the reason given under "mines in Government lands" and consequently there was a fall in the mica revenue as compared with the revenue of previous years.

Year.	LB.	OZ.	RS.
1909–1910 ...	239,952	9	7,569
1910–1911 .	445,531	8	13,551

Financial results.—The revenue realized during the year was Rs. 17,708 against Rs. 12,215 in the previous year.

Labour.—One thousand nine hundred persons were employed against 2,644 in the previous year, children not being allowed into the mines. The decrease is due to slackness in working and irregular payment of the wages by some of the miners. A large number of women and children is employed in cutting rounds and films. There was no change in the wages and the hours of working.

Accidents.—There was an accident in the mine at Inukurti in which two persons were killed and three received severe injuries.

Ventilation and lighting in tunnels.—No scientific method was employed to improve ventilation in the tunnels and there were no complaints with regard to ventilation and lighting.

Inspection by superior officers.—The District Medical and Sanitary Officer inspected 10 mines, the Collector 10 mines, the late District Forest Officer, Mr. Nallaswamy Nayudu 2 mines, the Divisional Magistrates 3 mines and the Inspector of Mines 42.

Prospects of industry.—The change in the prospects of the industry is not very appreciable. The industry has declined to a large extent owing to the increasing depth of the quarries and the growing expenditure in consequence and the depression in the market. There has been a slight revival during the year but how far the improvement is likey to continue it is difficult to say. Mr. Fred Cross has since withdrawn his application for a prospecting license in respect of copper.

Madras Depots.

71. *Supply and disposal of produce at the depots.*—The following shows the sources of supply, the quantity disposed of and the revenue realized and expenditure incurred during the year :—

Firewood and Charcoal.

District.	Quantity disposed of.	Revenue realized.	Expenditure incurred.
	TONS.	RS.	RS.
Nellore	10,398	89,150	45,867
East Cuddapah	3,191	29,592	27,455
Chingleput	678	4,609	3,236
Chittoor	121	648	654
Total ...	14,388	1,23,999	77,212

Bamboos.

	NO.		
East Cuddapah	68	4	2
Chittoor	70,888	1,171	845

Hay.

	TONS.		
East Cuddapah	36	1,148	871
Chingleput	1	12	...
Total ...	...	1,26,334	78,930
Add Madras depot establishment charges under B.	...	...	2,431
Grand Total ...	...	1,26,334	81,361

Trevelyn's basin, Kondetope and Barber's bridge depots were supplied by Nellore, East Cuddapah and Chingleput, Salt Cotaurs by East Cuddapah and Chingleput and Royapuram by East Cuddapah and North Arcot districts ; the working of Salt Cotaurs and Royapuram depots, which received the greater part of their supply from the East Cuddapah and North Arcot districts, shows results which it is impossibe to consider as satisfactory.

Financial results.—The revenue and expenditure are compared below with those given in the previous year's report :—

	1909-10.	1910-11.
	Rs.	Rs.
Revenue	1,21,980	1,26,334
Expenditure	22,723	81,361

The percentage of expenditure to revenue, viz., about 64 per cent., was 44 per cent. in excess of the previous year. This fact is due to inclusion, during the year, of felling and transporting charges incurred by the supplying districts which were not taken into account in the previous year. If allowance were made also for the establishments, carts and bulls, depreciation and interest on tramway Rs. (2,354) and other sundry charges in the supplying districts and for deficits on fuel, which alone would amount to something above 25 per cent., the net result cannot be considered as commensurate with the time and labour involved in maintaining the depots. It has therefore been decided to abolish them as soon as possible.

H. B. BRYANT,

21*st September* 1911. *Ag. Conservator of Forests, Central Circle.*

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

SOUTHERN CIRCLE, 1910–1911.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1
	2. Forest settlement	2
	3. Demarcation	3
	4. Forest surveys	4 & 5
II	Management of State forests—	
	1. Regulation of management—	
	(a) Preparation and control of regular working-plans ...	6
	(b) Preliminary working-plans reports	7
	(c) Annual plan of operations	8
	2. Communications and buildings—	
	(a) Roads and bridges	9
	(b) Buildings	10
	(c) Miscellaneous works	11
	3. Protection of forests—	
	(a) General protection	12 to 14
	(b) Protection from fire	15 to 17
	(c) Protection from cattle	18
	(d) Protection against injuries from natural causes ...	19
	4 Sylviculture—	
	(a) Natural reproduction	20
	(b) Artificial reproduction	21
	(c) Operations for improvement of the growing stock ...	22
	(d) Experiments	23 & 24
	5. Exploitation—	
	(a) System of management—	
	(i) Major forest produce	25 to 28
	(ii) Minor forest produce	29 to 32
	(b) Outturn and sources of forest produce	33
	(c) Agency of exploitation—	
	(i) Departmental agency	34 & 35
	(ii) Purchasers	36
	(iii) Right-holders and (iv) Free-grants	37
III	Financial results	38
IV	Administration	39 to 54
V	General	55 to 66
	Appendices A to F and Forms Nos. 65 to 85.	

FOREST ADMINISTRATION REPORT

OF THE SOUTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1911.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

Reserved forests.—The important variations were—

(*a*) An addition of 14 square miles by transfer from reserved lands and 9 square miles by recomputation of areas.

(*b*) Three square miles were deducted by the transfer of Karúr Taluk to Trichinopoly in the Central Circle.

(*c*) The adoption of Survey of India areas resulted in a net decrease of 151 square miles.

The total area fell from 4,995 square miles to 4,864 square miles. Two small areas of 4 acres were disafforested in *Tinnevelly*.

Reserved lands.—One square mile was newly constituted, 14 square miles were transferred to reserved forests, 7 square miles excluded at settlement and 4 square miles in the *Nilgiris* which were erroneously included in previous years and 9 square miles in *South Malabar*, on account of the adoption of Survey of India areas were deducted. The area at the close of the year was 555 square miles. It was stated in last year's Administration Report that 108 square miles remained to be transferred to unreserves in *South Canara*; it is now reported that this figure exists on paper only, the original areas not having been arrived at by actual survey.

2. Forest Settlement.

2. Four blocks in *South Canara*, three in the *Nilgiris*, one in each of *North Coimbatore*, *Central Coimbatore* and *Ramnad* and four in *Tinnevelly* were finally settled during the year. Twenty small additions, aggregating 684 acres, were brought under settlement; thirteen of these were in *Ramnad* and *Tinnevelly* for the improvement of forest boundaries. The balance under settlement was 42 blocks but the actual settlement of 20 of these was completed. The Special Deputy Collector in *Madura* completed the investigation of ten blocks and the officer in *North Coimbatore* verified the boundaries of nine reserved forests and prepared revised description of boundaries for seven of them. The cost of verification in the latter district amounted to Rs. 4,000.

3. Demarcation.

3. Two hundred and twenty miles of permanent demarcation was carried out during the year at a cost of Rs. 10,845. The progress was chiefly in *South Canara* and *Madura*. Six miles of the newly demarcated boundaries in *South Malabar* were cleared twice by subordinates. 14 miles of existing boundaries in *South Canara* were lined with stones, or trenched where stones were not available; of this, 6 miles were done by subordinates free of cost. In *South Malabar* boundaries were cleared for fire protection, the cost being debited to that head. All the lines in *Tinnevelly* and some in the *Nilgiris* and *South Coimbatore* are reported to have been cleared by subordinates. 5,134 miles were cleared by subordinates free of cost against 2,673 miles in the last year. In some districts the cost of demarcating annual coupes continued to be debited wrongly to "demarcation." 722 miles remained to be demarcated at the end of the year; of this 513 miles are in *Madura*, where every endeavour is being made to complete the work as soon as possible.

4. Forest Surveys.

(*a*) *By the Survey of India Party.*

4. The Survey of India party No. 7 continued the survey on the 2-inch scale of some of the reserved forests in *South Canara*. The progress report sent by the party is nil, presumably due to non-completion of the survey.

(*b*) *By Departmental Survey.*

5. The survey of the coupes of the year was carried out departmentally. In *South Malabar*, two plots of paddy land in new Amarampalam reserve were surveyed by subordinates at a cost of Rs. 17. A Surveyor in *Madura* surveyed the authorised and unauthorised cultivations within the forests investigated by the Special Deputy Collector. Four estates on the Anamalais in South Coimbatore were surveyed with internal details departmentally.

District Forest reference and other maps referred to in Section 80 of the Forest Code and fire protection maps were maintained and posted.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working Plans.*

6. *Preparation.*—A working plan for the Mount Stuart forests in *South Coimbatore* was sanctioned, another for Puliyangudi working circle in Vasudevanallur ghât forests of *Tinnevelly* was prepared and is awaiting sanction. In *North Malabar* the preparation of plans for Takkel and bamboo working circles in Kanoth Range was taken up and a good deal of statistics collected for the revision of working plans for Begur and Chedleth Ranges. In all other districts District Forest Officers have been unable to attend to the preparation of Working Plans.

Control.—The following were the chief deviations from the existing working plans:—In *South Canara*, sandalwood fuel working circle No. VIII of Udipi Range was transferred to the closed area being unfit for working on silvicultural grounds. Two additional coupes in Andar South working circle were located for want of facility for water in the original coupes. Additions regarding rearrangement of coupes, period of rotation and creeper cuttings were made to the provisions of the existing working plans. In *North Malabar*, coupe XVIII of Begur and coupe III of Chedleth were not worked as the works in previous year's coupes were not completed and had to be continued. In *Kollegal*, sandalwood coupe VII of Bailur was not worked because spiked trees from coupe IX had to be removed. The provisions of the Talamalai working plan in *North Coimbatore* and the plans for Méttupálaiyam and Bolampatti Ranges excepting the Chinnar working circle in *Central Coimbatore* were not carried out being unworkable. The working plans for Varigalli valley and Thalinji in *South Coimbatore* were not worked for want of export roads. Dhally coupe III was not worked as it was not surveyed and demarcated in time; and smaller areas in Amaravathi and Kamanuthu working circles were exploited, plague having interfered with the work.

(*b*) *Preliminary Working Plans Reports.*

7. Preliminary reports for Abbigudde and Hulimishepare reserved forests in *South Canara* were prepared and are awaiting further inspection for completion. The revised preliminary working plan for the leased forests in the *Nilgiris* was sanctioned by the Board but for want of establishment its provisions were only partially carried out.

(*c*) *Annual Plan of Operations.*

8. Besides the deviations mentioned in paragraph 6 *supra* the only important deviations were: *South Canara.*—Trees in Someshwar timber working circle were sold standing instead of being removed on permits. Parappa addition I was not demarcated as the settlement of it was not completed. *North Malabar.*—No timber was

carted to Nanjangod and Kallai as the stock was sold in the forests, and bamboos were not felled in Kanoth Range as contractors could not be had and the Range Officer was unfit to carry out the felling departmentally. *South Malabar.*—The proposed construction of roads, bridle-paths and serambis in the Silent Valley were postponed as on personal inspection they were found either unnecessary or premature. The depot-keeper's quarters at Beypore, demarcation of Panakadan reserve and sinking three wells not provided for were undertaken. *The Nilgiris.*—The plantations at Ootacamund were not felled as there was sufficient stock and an inspection shed at Sholur was not constructed for want of a suitable site. *Kollegal.*—Ponnachi-Hosúr road was not completed and Hanur-Cowdally road not taken up for want of establishment. The construction of a rest-house at Ponnachi was abandoned in favour of one at Gobinatham. *North Coimbatore.*—One proposed road and two rest-houses were not built for want of funds. *Central Coimbatore.*—Three fuel coupes in Méttupálaiyam Range were not felled as the demand was met from other coupes. The proposed rest-house at Vellapathi and the subordinates' lines at Gopanari were deferred, the former for reconsideration in connection with the proposed buildings for the Attapadi valley and the latter pending selection of a good site. *South Coimbatore.*—Spokes and felloes were not manufactured, a large stock remaining unsold. The construction of Tekadi ghat, Varigalli valley and Talinji roads was postponed because the estimates for the first two were not sanctioned and the trace for the third could not be made for want of a trained establishment. The proposed construction of a serambi at Ulandi was deferred, funds having been utilised to proceed with the buildings at Tekadi. *Tinnevelly.*—Three roads and two lines for subordinates were postponed in favour of more urgent works; a bungalow and a set of subordinates' lines were also deferred, sites not having been selected.

2. Communications and Buildings.

(*a*) *Roads and Bridges.*

9. Three roads (length twenty-two miles) in *North Coimbatore* and the Tekadi tramway, inclined plane and road (length fifteen miles) in *South Coimbatore* were traced and estimates prepared; two miles of the Varigalli valley road in the latter district were also completed and the estimate for its total length (5 miles, 5 furlongs) was sanctioned by Government after the close of the year. In *Kollegal*, two miles of Araipalayam road were constructed and the Ponnachi-Hosúr road was under progress. Nine miles of bridle-path in *Madura* and four miles in *Tinnevelly* were constructed; in the latter district, Kodamadi and Kuduvari roads were also extended by three and two miles, respectively. The roads in *Kollegal*, *North Coimbatore* and *Madura* were maintained and large amounts were spent on necessary repairs.

No progress was made with the Wynaad tramway and the estimates and plans for it have to be revised in accordance with the orders of Government. The tramway in *South Coimbatore* was worked as usual. Taking into account the increased rates for hired carts and bullocks now prevalent and the savings due to opening of branch lines, the working shows a profit of Rs. 3,056 against a loss in previous years.

The wire-rope-way was dismantled during the year.

The total expenditure on communications during the year amounted to Rs.41,024.

(*b*) *Buildings.*

10. During the year, the total expenditure on new buildings and on repairs and maintenance to existing buildings for the whole circle amounted respectively to Rs. 32,064 and Rs. 12,418. The new important works were the construction of a Range office at Shankaranarayana in *South Canara*, depôt-keeper's quarters at Beypore in *South Malabar* and in the *Nilgiris*, forester's quarters at Avalanche and a charcoal godown at Ootacamund. In *Kollegal*, rest-houses at Gundal, Hanur and Gobinatham were commenced, the first two were nearing completion. Rest-houses at Kongarapalayam and Markampalayam and subordinates' lines at Thattakarai were constructed and the construction of range quarters at Burgur and subordinates' lines

at Girgagandi was commenced in *North Coimbatore*. In *South Coimbatore*, the buildings at Tekadi were proceeded with; three sets of lines for subordinates were constructed in *Madura* and two in *Tinnevelly*.

(c) *Miscellaneous Works.*

11. In *South Canara*, rocks in the Netravati and Arehole rivers were blasted to facilitate rafting and boating. In *North Malabar*, pipes were laid down for supply of water to the bungalow at Alattur and the District Forest Officer's quarters. New wells were dug in six places, and several of the existing wells deepened and compounds fenced. The miscellaneous works of the year cost Rs. 4,819.

3. Protection of Forests.

(a) *General Protection.*

12. The following statement gives the comparison between the offences of the year and the preceding year under the different heads:—

Class.	Injury to forest by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.
Reserved forests.										
Cases taken into court.	37	35	596	418	313	265	146	122	1,092	840
Cases compounded ..	26	50	1,895	2,174	1,044	1,425	211	150	3,176	3,799
Cases undetected ..	296	438	4	7	224	150	2	..	526	595
Total ..	359	523	2,495	2,599	1,581	1,840	359	272	4,794	5,234
Unreserved lands.										
Cases taken into court.	..	..	31	80	..	..	..	6	31	86
Cases compounded ..	..	1	138	635	..	..	..	21	138	657
Cases undetected ..	..	..	..	..	..	..	2	..	2	..
Total ..	..	1	169	715	..	..	2	27	171	743
Grand Total ..	359	524	2,664	3,314	1,581	1,840	361	299	4,965	5,977

Offences in reserved forests.—The total number of offences increased by 9 per cent. and the increase was under all the heads except "Other offences." The increase under "injury by fire" was mainly in *South Canara* due to more accurate registration of fires and to treating several cases as undetected offences. The increase under "illicit fellings" was in *South Canara*, *Madura* and *Tinnevelly* and under "illicit grazing" mainly in *Madura*, and for this no explanation is given in the district reports. The number of offences in *Kollegal* and *North Coimbatore* has decreased, the decrease in the former was due to want of supervision, the subordinates having been engaged on building and other works, and in the latter to the fact that a large number of offences detected by the students of the Vernacular Training School contributed to the increase last year. This shows that protection continues to be bad owing to paucity of establishment.

Of the cases taken into court, 89 per cent. ended in conviction against 91 per cent. in the last year. The number of cases withdrawn after they were taken into court has considerably fallen, due to change in classification in *South Canara*. The punishments inflicted by subordinate Magistrates are reported to be fair in *South Canara* and satisfactory in *Central Coimbatore*. In *Kollegal* and *North Coimbatore* the number of cases of illegal rescue of cattle continued to increase and this increase is attributed to the lenient punishments inflicted by Magistrates. It is reported that the District Magistrate has taken due notice of this. In the matter of holding adjacent villagers responsible for commission of offences in particular forests, action was taken during the year only in *North Malabar*, *Kollegal* and *North Coimbatore*. The villagers adjoining Tirunelli and Hilldale blocks in *North Malabar* were warned of the closure of the forests to grazing, on any offence being proved due to their carelessness,

and the result of this procedure has so far been very satisfactory. In *Kollegal* and *North Coimbatore* the necessary notification regarding the forests and the villagers to be held responsible has been published in the District Gazette.

Offences in unreserved lands.—Thirty-seven cases are reported to have been compounded and seven prosecuted by one of the Divisional Officers in *South Coimbatore*; details however have not been reported. Complete information has not been furnished by *North* and *Central Coimbatore*. No comparison can be made, as such offences were not reported last year from some districts.

13. The total number of cases compounded and the fees realized were 3,862 and Rs. 39,022 respectively against 2,942 and Rs. 28,507 in the previous year. These figures also do not admit of useful comparison for the reason given under *offences in unreserved lands.*

14. In *South Canara* a Revenue Inspector and an informer were granted each a reward of Rs. 15 in a case of extensive illicit fellings from kumaki and adjoining unreserved lands. In *Kollegal* Rs. 75 to subordinates and Rs. 20 to informers were granted as rewards in two cases, one of illicit felling of green trees and the other of setting snares. Rewards amounting to Rs. 29 were granted to six persons in *North Coimbatore* for good services rendered by them in the detection of three cases. A Village Munsif in *Rámnád* was rewarded Rs. 2 for detecting a case of felling in unreserved lands.

(*b*) *Protection from Fire.*

15. *Special protection.*—The system of protection adopted in previous years was continued during the year. The area attempted to be protected was 1,291 square miles against 1,311 square miles in the previous year and the area burnt during the year was 40 square miles against 63 square miles in the last year. The proportion of successful protection increased from 95 per cent. to 97 per cent. and the cost per square mile of successfully protected area rose from Rs. 18-4-3 to Rs. 23-8-10. The increase in cost was due to the increased expenditure incurred in *North Malabar*, *Kollegal*, *North Coimbatore* and *Madura*. In *North Coimbatore* the increased expenditure was due to clearing of additional lengths of lines such as paths, roads and other sources of fire caused by travellers; in *Kollegal* and *Madura* it was due to a larger area being brought under protection. In *North Malabar* there was a large increase. Last year there was no expenditure on Tirunalli block as the whole block was burnt before work commenced. The block was successfully protected this year. The general results for the circle are excellent.

16. *General protection.*—The area attempted amounted to 3,310 square miles against 3,020 square miles in the previous year; the increase is due to the inclusion of areas in *Madura* not shown in last year's return. The percentage of failure fell from 4·9 to 1·9 per cent. The registration of fires in these areas is reported to have improved a little in three of the ranges in *South Canara* and continued to be unreliable elsewhere in the circle.

17. The number of, and the causes to which, fires were attributed are given in Appendix D. Compared with the figures of the last year there was an increase in the number of fires, but the area burnt decreased by about 50 per cent. The increase of fires was chiefly in *South Canara* due to more accurate recording.

(*c*) *Protection from Cattle.*

18. The area closed entirely to grazing for the whole year was almost the same as that of last year and that closed for part of the year decreased from 42 to 26 square miles. The decrease was due to reopening of areas closed in the previous year in *Tinnevelly* and *Rámnád* for incendiarism. 77 per cent. of the total area of forests was open to all animals except goats. Goat-browsing was allowed only in *Madura* where the area open was the same as in the previous year, *i.e.*, 2 per cent. of the total area.

The number of cattle impounded during the year is analysed in Appendix E. The figures compared with those of last year decreased from 27,152 to 26, 676. The fluctuations are marked in *North Coimbatore* and *Madura*; the decrease in the former district is attributed to the reduction in the number of grazing offences, while the increase in the latter to the area open to grazing and browsing being restricted.

(*d*) *Protection against Injuries from Natural Causes.*

19. In *South Canara*, caterpillars again defoliated teak. The heavy rains during the autumn of 1910 in *South Malabar* probably prevented the attack of *Hyblæa* and *Pyrausta*. Green locusts appeared in the autumn, but the damage caused was not great. Young locusts about the size of grass-hoppers appeared in 1900 and 1901 plantations swarming on the ground and undergrowth; a large number of these were caught and destroyed by coolies at a cost of Rs. 18. Mahogany borer caused no fresh damage and the trees attacked last year are reported to be growing well. Abnormal floods in June washed away in different places about 3 acres and in Chathamborai plantation 30 teak trees were uprooted. Land slips during the flood in Valluvasheri, Karimpoya and Edacode plantations uprooted 64 trees. A breakwater was constructed in Chathamborai, but before it was completed there were heavy floods. Erosions in the Beypore tope are caused by the beating of the water in the backwater; but no forest growth is in danger. Many trees and bamboo clumps were blown down by a severe storm in March and 446 teak trees were uprooted or badly broken by a heavy storm in June. The spread of spike among the sandalwood trees has not entirely ceased in *North Coimbatore*; it continues to spread in *Kollegal* where 7,243 spiked trees were removed; so far, the cause of the disease has not been discovered. In *Central Coimbatore*, several fungoid leaf diseases were observed. Among those identified were *Uncinula tectonæ* found on teak, not hitherto recorded in Southern India, and *Gamblœla Cornuta* found on *Berberis Nepalensis*, recorded only in the Himalayas. In *Ramnad* and *Tinnevelly*, caterpillars (a species of sphinx) caused much damage specially to *Anogeissus latifolia* and *Azadirachta indica*. In the latter district, several standards in coupes died owing to drought.

4. Sylviculture.

(*a*) *Natural Reproduction.*

20. In *South Canara*, natural reproduction was good, but seedlings were much damaged in over-grazed areas. *Hopea parviflora* seeded and germinated abundantly. *Xylia dolabriformis* reproduced itself well, especially in coppiced areas. Teak regeneration was much better in Sampaji and Todikan reserves, burnt over every year, while it was almost nil in the successfully protected Parappa reserve. In *North Malabar*, the reproduction of most species, except teak and *Lagerstromia lanceolata*, was satisfactory. In *South Malabar*, reproduction was on the whole good. *Terminalia tomentosa* is coming up on the edges of some of the understocked swampy areas in the New Amarampalam reserve. In the *Nilgiris*, natural reproduction of valuable species was poor. In *Kollegal*, reproduction of *Anogeissus latifolia* is particularly good in fire-protected areas. *Pterocarpus Marsupium* is promising. Teak has regenerated excellently from old shoots and seedlings, killed last year. In *North Coimbatore*, reproduction from seeds and root-suckers was good and *Hardwickia binata* regenerated well in the Pálár valley, but was damaged much by cattle. Much harm was done by cattle to sandalwood areas under regeneration. Pits from which sandal was extracted were covered with thorns to protect suckers against cattle. In *Central Coimbatore*, reproduction from seeds with a few exceptions was poor. In lands where grass is not dense, many seedlings and root-suckers are found. *Dalbergia latifolia* reproduced abundantly from root-suckers in grass areas escaped from fire and grazing. Reproduction from seeds of *Hardwickia binata* is abundant in Singara tope, an area successfully protected against fire and grazing. In *South Coimbatore*, teak, *Pterocarpus Marsupium*, *Xylia dolabriformis*, *Grewia tiliæfolia Terminalia tomentosa*, *Terminalia paniculata* and *Dalbergia latifolia* regenerated excellently, but the encroachments of bamboos and lantana are doing much harm. *Anogeissus latifolia* reproduced in profusion on the Punachi Hills. In *Madura*, reproduction in the unworked ever-green forests was good. In *Ramnad*, teak and Albizzias reproduced well in deciduous forests. In *Tinnevelly*, reproduction was poor and seedlings that had sprung up died for want of rains.

Reproduction by coppice was good everywhere. It was very satisfactory in the Eucalyptus plantations and in Mudumalai Working Circle in the *Nilgiris*, in Ennamangalam fuel coupe in *North Coimbatore* and in the moist forests of Chenat Nair, Walayar and Chinnar in *Central Coimbatore*.

(*b*) *Artificial Reproduction.*

21. *Regular plantations—North Malabar.*—700 *Pterocarpus Marsupium* and 800 teak seedlings were planted over 400 acres in Begur coupe VIII. 1,500 mango and 700 teak seedlings were planted in a clearing half a square mile, near Begur camp. Mango seedlings withered, for want of rain, the teak is doing well. *South Malabar.*—In Karimpoya, 136 acres were planted with teak, 8′×8′ and in the swampy portions with *Terminalia tomentosa*. The plantation of 1910 was completed, 20,900 casualties were replaced and 92,480 teak seedlings were newly planted. 137 acres were cleared and prepared for planting in 1911. 45,698 casualties were replaced in plantation 1909. The young cocoanut plantations in Beypore tope were maintained. *The Nilgiris.*—Experimental planting of nine new varieties of Eucalyptus was continued; 42 acres of Snowdon plantation commenced last year was completed; planting in Aramby and Keti plantations (74 acres) was continued. Mr. Butcher, Curator, Government Gardens, rendered great assistance in carrying out the experiment. The entire maintenance of Kallar and Benhope plantations has been transferred to the Curator of the Government Botanical Gardens. Two of the Jackal plantations were planted with *Hakea* and *Cypress* seedlings at a cost of Rs. 166. The *Hakea* is doing well but most of the latter have failed. *Central Coimbatore.*—The small Sadivayal plantation in Bolampatti II reserve has recovered well from last year's burning, the whole area was freed of grass by neighbouring villagers who were allowed to remove the grass free of charge. Palmyra seeds were dibbled in over 35 acres in Virumandampalayam reserve; several germinated and are doing well. Mahagony seeds collected in Dhoni plantation were sown in a nursery for planting during rains. *South Coimbatore.*—Planting 10 acres of Karianshola was completed at a cost of Rs. 242; adjoining, another 30 acres was cleared and burned and seeds dibbled in during rains. Anaipadi, Waterfall and Mudi plantations were cleared and weeded and seedlings dibbled in in blanks. These are doing well. *Madura.*—The Upper Palni pine plantation was extended. 218,904 seedlings were raised and basketted. Seedlings of 1907–1908 are doing well, their average height being 3 to 5 feet; *Pinus ponderosa*, *Pseudotsuga macrocarpa* are slow in growth; *Pinus insignis*, *P. radiata*, *P. attenuata* and *P. Sabaniana* are doing very well. 96,825 seedlings were planted out during the year in blocks, 6 feet apart, each block having a single species. *Tinnevelly.*—Seeds of several species were sown in 115 acres in Teri and Kaliavur reserved forests; margosa and tamarind seeds were damaged by rats and squirrels; seeds dipped in kerosine oil emulsion produced a little better result.

Taungya plantations.—In *South Canara*, 183 acres were kumaried and seeds sown by Maratties; as usual the results were poor. In *North Malabar*, mango, *Artocarpus integrifolia* and *A. hirsuta* seeds were sown by the Kurchiyur ponam cultivators with their crops over 250 acres in Kanoth range; the results were very uneven owing to want of adequate supervision. One hundred acres of unreserved lands in the same range were granted to selected ponamdars on condition that they not only sow seeds of the above mentioned species but would cultivate ponam twice successively on the same land.

Cultural operations—South Canara.—Seeds of valuable timber species were sown by the protective establishment and the work was scattered over a large area. Seeds of *Terminalia tomentosa* and *Artocarpus hirsuta* were dibbled in and *Hopea parviflora* and *Acacia Catechu* sown broad-cast resulting in a very large number of healthy seedlings. In *North Malabar*, a large number of heaps of useless chips and top branches were burnt in Begur coupe VIII and teak seeds dibbled over burnt areas. Tamarind seedlings planted 50 feet apart over 3 furlongs on the Kuppadi-Padipura fire line are in good condition. *South Malabar.*—12 cocoanut seedlings were planted round Nedungayam rest-house. Twenty-five acres of third class area in Valluvasheri plantation were planted and sown with valuable species at a cost of Rs. 169. *Dalbergia latifolia* and *Pterocarpus Marsupium* were planted along fire lines and 360 *Terminalia tomentosa* seeds dibbled in around an open swamp in 1868 plantation. Third class areas planted in previous years were weeded and 7,084 casualties replaced by different species including 2,234 *Swietenia macrophylla*. A small nursery was formed to replace casualties in the plantations, costing Rs. 71. In the *Nilgiris*, 5 acres of tuckle area in Benne forests were cleared and planted with teak, *Pterocarpus Marsupium* and Mahogany seedlings. In *Kollegal*, 200 measures of sandal seeds were

dibbled in old pits and under bushes over an area of 1,870 acres in Bailur reserve. *In North Coimbatore*, sandal seed was dibbled in Gutialattur and Burgur coupes and margosa in 29 acres of Kanakampalayam fuel coupe. The margosa seedlings withered in the hot season. Eighteen bags of *Pterocarpus Marsupium* and 13 bags of *Dalbergia latifolia* seeds were sown in several places and there were 1,355 Pterocarpus seedlings at the end of the year. Dalbergia failed, the seed being bad. Ninety-five seedlings of vengai and rosewood were thriving in the areas in which seed was dibbled in at Geddesal by the students of the Vernacular Training School, last year. Several root-suckers, 3 to 4 feet high, were found growing after 8 months, in trenches dug 2 feet deep and 40 feet from a *Dalbergia latifolia* tree. *Central Coimbatore.*—Broadcast sowing and sowing in patches under existing shade in the dry zone forests produced no results. In *Ramnad*, seeds sown failed in all except one coupe. Sowings of past years also have yielded no results. In *Madura*, 167 acres were cleared in Palamedu range; of this 120 acres were ploughed and sown with *Tephrosia purpurea* and *Cassia auriculata* at a cost of Rs. 419. *Tinnevelly.*—Seeds sown in coupes did poorly for want of rain. Cuttings of *Odina Wodier* and *Ficus bengalensis* were planted in Teri reserve; a fairly large proportion have struck roots. 145 measures of *Cassia auriculata* and 127 measures of *Tephrosia purpurea* seeds were sown over nearly 40 acres of Gangaikondan and Kaliavur reserves; results bad owing to drought.

Collection of seeds.—Five hundred pounds of teak seeds were sent from *South Malabar* to Nairobi, British East Africa, and 50 bags of teak seed to West Kurnool. 113 bags of different species of seeds were sent from *South Coimbatore* to the Northern and Central Circles.

(*c*) *Operations for Improvement of the Growing Stock.*

22. *Improvement Fellings.*—In *South Canara*, improvement fellings to assist the growth of *Hopea parviflora* were made over 580 acres, 480 acres at Rs. 285, the remainder by subordinates. In the *Nilgiris*, 350 acres of Block 1, Compartment 1, of the Mudumalai Working Circle was treated and in *Tinnevelly*, 13 acres in Nadugani Working Circle.

Thinnings.—In *South Malabar*, 1,014 acres of teak plantations were thinned at a cost of Rs. 1,198. In the *Nilgiris*, Mudumalai teak plantation was thinned and 892 poles removed. In *Central Coimbatore*, four coupes in Kunnathoor Acacia Working Circle were thinned.

Fencing—North Malabar.—Bamboo fencing was put up around Begur vengai plantation to prevent sambur getting in. In *South Malabar*, a wire fence was put round Beypore tope against cattle, costing Rs. 158 and Swietenia macrophylla avenue trees were fenced.

Creeper cutting.—In *South Canara*, 1,246 acres, cost Rs. 194 and 124 acres was done by subordinates. *North Malabar.*—22½ acres in Begur teak plantations cut over. In *South Malabar*, the cutting over 595 acres in Karimpoya young teak plantation, 1901 to 1905, cost Rs. 332. Creepers were also cut in other plantations when thinnings were made; subordinates cut 4 acres in Panakadan reserve. In *North Coimbatore*, standards in fuel coupes and all sandal trees were cleared of creepers. In *Ramnad* and *Tinnevelly* some areas were cut by subordinates free of cost.

Removal of parasites.—In *South Malabar*, this was done over 440 acres of plantations, costing Rs. 378.

Pruning—South Malabar.—Pruning was carried over the whole of plantations, 1908 and 1909, and over 66 acres in 1907 plantation, costing Rs. 287. In *Kollegal*, the lower branches of standards in Gundal Coupe IV were pruned.

Removal of noxious growth.—In *North Malabar*, lantana was uprooted over 12 acres of plantation. In *South Malabar*, undergrowth was cleared in lines one chain apart over 1,014 acres to facilitate marking for thinnings. *Central Coimbatore.*—Bamboos having seeded throughout Walayar and Sholakarai reserves, they were sold standing as a protection against fire and as an attempt at eradicating them. Eradication of prickly-pear was continued; satisfactory results were not achieved as the work was not thoroughly done on account of the small outlay. The operation will be continued. *South Coimbatore.*—Weeds and shrubs cleared and the soil turned up around all seed bearers of good species in Compartment II of Poonachi Working Circle.

(*d*) *Experiments.*

(i) *On Species.*

23. *Swietenia Mahagoni*—In *South Canara*, most of the 299 trees referred to last year are reported to be doing well as garden plants. *South Malabar.*—Out of 306 mentioned last year, 76 plants survived; those planted as avenue trees in Karimpoya plantations are in fair condition. *The Nilgiris.*—The plants put in the tuckle areas were killed by deer. *Central Coimbatore.*—Several of the trees at Vellapathi died, cause not known; but a bark boring caterpillar similar to *Arabela tetreonis* was found attacking one of the trees. *South Coimbatore.*—Two trees at Easalammanthorai and those at Anamalai are thriving. *Madura.*—The trees at the bathing mantapam, Alagar Hill and two in Kanavoipatti rest-house are doing well.

Swietenia macrophylla.—The big tree at Chathamborai, *South Malabar* has grown two feet higher and added $2\frac{1}{2}$ inches to girth. Four pounds of seeds were collected locally and 2,000 seedlings raised. The trees in Pokote and Edacode are damaged by monkeys. Heartwood was not conspicuous in a plank of *S. macrophylla* cut from one of the trees in Edacode plantation 1893. Planting of the species continued in Kaliavur reserve, *Tinnevelly.*

Ceara Rubber (*Manihot Glaziovii*).—The trees in *South Canara* do better than para rubber and those in *South Malabar* are not doing any good.

Cedrela odorata—continues to thrive well in *South Malabar* and *Coimbatore.*

Catalpa speciosa.—Five plants survive at Geddesal. The locality apparently is unsuitable.

Kicksia africana and *Landolphia florida*—are doing well in *South Malabar* but monkeys are damaging the latter.

African acacias.—Three of these still survive in *South Malabar.*

Araucaria Cunninghamii.—Two seedlings have been raised and planted out at Woodcock Lodge, *Nilgiris.*

Camphor.—The transplants in Sim's park are well established and those in *Madura* are doing well.

Erythrina latissima.—Three plants survive in the *Nilgiris.*

Widdringtonia Wightii.—The trees in Sim's park are dying. The tree has however been established in the Nilgiri plateau and some of the trees at the Government House are 20 feet high.

Bamboos—*Bambusa longispathus* are growing well at Pokote, but they are too small to be of much value. Seven clumps of *Arundinacea Brandisii* (Giant Bamboo) in Aravillikava and Edacode are doing well. The growth of two clumps of *Bambusa vulgaris* in Aravillikava is slow.

(ii) *On other points.*

24. The second series of observations were made to determine the annual upward growth of teak in *South Malabar*, and they indicate an appreciable rise in 23 out of 31 stems—nearly $\frac{3}{4}$ inch in some cases.

Areas to test the effect of firing on the quality and quantity of grass were maintained in *North* and *Central Coimbatore*; in the latter district the area was not well chosen and any useful result is doubtful and in the former the progress is not mentioned. In *Madura* the experiment was commenced on a fresh area.

In *Madura* two leaf silos prepared last year were opened; the silage in one was sold for Rs. 25, but was not removed by the purchaser and there was no demand for the other pit. The Government have since ordered to discontinue the experiment.

In *South Malabar* 133 young teak trees, badly attacked by larvae of a Buprestid beetle in Karimpoya plantation 1908, were coppiced and strong shoots one to three feet high were found in three months' time.

5. Exploitation.

(*a*) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

25. In *South Canara* 3·74 acres of casuarina in Tannirbhavi plantation were clear felled. In *South Malabar* 137·08 acres were clear felled in coupe III of Karimpoya reserve for the formation of plantation in 1911; the amount realized was Rs. 3,968–2–11. In *South Coimbatore* 30 acres in Tunacaduvu reserve were felled and burnt for planting in accordance with the sanctioned working plan.

(2) *Selection Fellings.*

26. *South Canara.*—Selection fellings were carried out in a portion of coupe VII of Madibare and mature trees in Someshwar coupe were sold standing. *North Malabar*—500 acres in coupe VIII of Begur and 370 acres in coupe X of Kurichiyat were felled. *The Nilgiris*—Sandalwood fellings in Sigur range yielded 353 maunds. *Kollegal*—1,332 sandalwood trees were felled in coupe X of Madeswaranmalai. Spiked, dead and dying sandalwood trees were removed from Bailur Coupe IX. In *North Coimbatore* sandalwood trees were felled over an area of 10,608 acres and bamboos extracted from coupes of 20,347 acres. *South Coimbatore*—Selection fellings were completed in Compartment XVII and commenced in Compartment XVIII of Tekadi leased forest. Punachi Coupe II was felled and trees were selected and marked in Coupe III. *Madura*—One hundred trees in Vannathiparai forest were selected and sold for Rs. 4,210. *Tinnevelly*—Two hundred and twenty-six trees were selected in four forests and sold standing.

(3) & (4) *Improvement and Coppice Fellings.*

27. In *South Canara*, eleven coupes covering 572 acres were coppiced in Coondapur and Shankaranarayana Ranges. Thirtysix acres were felled in Udipi Range to supply fuel to one hundred and four sandalwood oil-stills. In *North Malabar* a coupe of 10 acres in Kanoth reserve was felled for supply of fuel to Tellicherry town. In *South Malabar* thinnings were carried out and 24,934 teak trees and 120 miscellaneous trees were removed; 120 dead or uprooted trees were also removed. 69 teak saplings which interfered with the growth of Mahogany trees were felled. In *the Nilgiris* improvement felling was carried out over 350 acres in Mudumalai working circle yielding 15,151 cubic feet of timber, chiefly teak. 27 acres of blue-gum plantation in Coonoor Range were coppiced. In *Kollegal* bamboos were extracted from Araipalayam and Gundal coupes. In *North Coimbatore* nine fuel coupes covering 786 acres and 55 acres for drag poles and agricultural implements were coppiced. In *Central Coimbatore* all coupes were worked under coppice with standards. In *South Coimbatore* seven fuel coupes, area of 171 acres, were coppiced and improvement felling was made over 128 acres in Punachi Coupe II. In *Madura* 36 coupes aggregating 3,808 acres and 11 tank beds were coppiced. In *Tinnevelly* 18 coupes were coppiced and 8 coupes in tank beds were also worked. In *Kollegal* and *Rámnád* the outturn is given but the details of area coppiced are not reported.

(5) *Unregulated Fellings.*

28. In *South Canara* 140 cinnamon oil-stills were worked, the fuel required being obtained from unreserved lands; the revenue collected was Rs. 1,061. In *the Nilgiris* permits were issued for the removal of small timber, fuel, bamboos, etc., by the resident ryots. Timber and bamboos were removed on permits in *Kollegal* for the construction of plague camps.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

29. Minor produce was generally leased out. Catechu in *South Canara* was manufactured departmentally. In *North Malabar*, *Kollegal*, *North Coimbatore*, *Tinnevelly* and *Ramnad* some items of minor produce were collected departmentally. In *Madura*, thatch grass, thorns, manure leaves (except in two ranges) and stones in reserved forests were removed on permits.

(2) *Extraction of Fodder.*

30. Grass is removed on permits in *Kollegal* and *Madura* and included in minor forest produce leases in *Rámnád* and *Tinnevelly*. The removal of fodder and thatching grass was allowed free in *South Canara*. In the *Nilgiris*, cutting of grass on the Wenlock Downs was permitted free; the Todas of the plateau and the Chetties of Mudumalai were also permitted to remove free of cost grass required for thatching. The concession of free removal of grass is not required in *Malabar* and was not allowed in the four divisions of *Coimbatore*.

(3) *Hay-making.*

31. About 20 tons of hay were collected in *South Canara* and used for feeding Government bullocks. In *Central Coimbatore*, about 50 tons of hay were made. There is little or no demand for this and a large quantity is in stock including the previous years' outturn.

(4) *Grazing.*

32. Grazing was regulated by issue of permits for individual forest, block, working circle or compartment. The forests in *South Malabar* are closed to grazing. Goat-browsing is permitted only in *Madura* where steps have been taken to reduce the area open to browsing. The question of regulating grazing in the *Nilgiris* was enquired into and reported on and the matter is now pending orders of the Board. In *North Coimbatore*, a scheme for regulating grazing in the forests of Talamalai Range was formulated and the orders of Government are awaited. In *South Coimbatore* the forests of Dhárápuram have been closed to grazing and a scheme for the forests of Udumalpet has been sanctioned and introduced during the current year. Enquiries regarding the grazing possibility have been completed for all districts except *South Malabar*, *the Nilgiris* and *Central Coimbatore*. The number of animals licensed to grazing on payment was 491,658 against 591,882 in the previous year; the decrease is merely on paper and is due chiefly to change of grazing season in Malabar, Coimbatore and Tinnevelly.

(*b*) Outturn and Sources of Forest Produce.

33. The following abstract compares the total outturn of timber and other produce collected by different agencies from all classes of forests during 1909–1910 and 1910–1911:—

Agency of exploitation.	Timber including sandalwood in cubic feet.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce including grass and grazing in rupees.	
	1909–1910.	1910–1911.	1909–1910.	1910–1911.	1909–1910.	1910–1911.	1909–1910.	1910–1911.
1	2	3	4	5	6	7	8	9
By Government agency.	407,308	262,741	2,986,504	2,776,940	105,810	177,515	37,307	24,717
By purchasers	456,977	363,731	2,997,585	2,892,240	4,982,721	5,209,774	2,70,589	1,84,875
By right holders	92,635	63,975	106	2,500	2,775	..	1,081	823
By free grantees	14,023	20,109	3,645	2,126	2,400	14,726	820	452
Total ..	970,943	710,556	5,987,840	5,673,806	5,093,706	5,402,015	3,09,797	2,10,867

Except under *bamboos* the total yield under other heads was less than in the previous year. *Departmental agency.*—The increase under *timber* in *South Canara* is the result of cutting boundaries of several reserved forests. In *North Malabar*, it was due to a larger area exploited and in *South Malabar* to greater yield from plantation thinnings; the decrease in the *Nilgiris* was due to a smaller area treated under improvement felling. The increase under *fuel* in *South Canara* was due to a larger number of coupes worked, in the *Nilgiris* to the supply of fuel to the Nilgiri Railway and in *Tinnevelly* to departmental working of one coupe; the decrease in *North Coimbatore* was due to poor outturn from some of the coupes. There was a large increase in the number of bamboos extracted departmentally and by purchasers; in *South Malabar*, it was due to a larger number of bamboos used for floating timber, in the *Nilgiris* to a large demand by basket-makers and in *Kollegal* to large quantity used for construction of plague camps. The variations in the outturn of produce in other districts are not explained.

(c) AGENCY OF EXPLOITATION.

(i) *By Departmental Agency.*

34. Apart from the works mentioned in paragraphs 29 and 31 the chief works done departmentally were—*Major produce.—In South Canara*, felling of one timber and four fuel coupes; also creeper cutting and improvement fellings. *In North Malabar*, 22,269 cubic feet of timber were felled in Coupe VIII of Begur and 3,552 cubic feet were floated and carted to Mysore; extraction of 25,000 bamboos and felling 5,840 cubic feet of fuel for supply to Tellicherry. In *South Malabar*, thinning of teak plantations, dragging timber to the river bank and floating to Beypore. 50,789 cubic feet of teak logs, 7,653 cubic feet of saplings and 48 cubic feet miscellaneous logs were floated to Beypore. In the *Nilgiris* improvement fellings in Mudumalai and fellings in the blue-gum plantations. In *Kollegal* and *North Coimbatore*, extraction of sandalwood and felling fuel coupes. In *Central Coimbatore*, five fuel coupes were felled for supply to Coimbatore town and to the Central Jail. In *South Coimbatore*, marking and felling timber in, and transport from, the Tekadi leased forests and Punachi Working Circle, and felling fuel coupes. In *Madura*, eight fuel coupes were felled for supply to the Madura Mills and town. In *Tinnevelly*, felling fuel in one coupe for want of good offers.

Minor produce.—About 15 tons of catechu were manufactured in *South Canara*; the revenue realized during the year was at an average rate of Rs. 724 per ton against Rs. 678 in the last year and Rs. 725 the year before. The outturn under minor produce was 221 tons against 434 tons in the previous year; the decrease was mainly due to smaller quantity of hay manufactured in *Central Coimbatore*.

35. *Disposal of produce at the edge of the forests.*—In *South Canara* fuel was sold on a small scale at the edge of two forests. Most of the villages adjoining reserved forests obtain sufficient supply from kumakies and unreserved lands. The difficulty of transport stands in the way of obtaining contractors to purchase standing coupes. In *North Malabar*, there is practically no local demand owing to the existence of extensive private forests. In *South Malabar*, timber in Coupes I and II of Anarampalam was sold to a contractor. In the *Nilgiris*, an unsuccessful attempt was made to get contractors to take over the fuel supply to Ootacamund. The prices offered are reported to be ridiculous and the difficulty will continue so long as contractors can get work in private plantations with no restrictions such as those imposed by the department. In *Kollegal* and *North Coimbatore*, fuel felled departmentally was sold to contractors in coupes. In the former district, depots at the edge of the forests were also opened and in the latter fuel was sold to consumers direct at the edge of three coupes and the demand is reported to have been on the whole good. Fuel was retailed at the edge of coupes in *South Coimbatore*. Most of the coupes in *Central Coimbatore*, *Madura*, *Ramnad and Tinnevelly* were sold standing.

(ii) *By Purchasers.*

36. Wherever purchasers could be found coupes were sold standing. In *South Canara* one timber and six fuel coupes were sold standing and the depot at Mangalore was leased out. In *North Malabar* coupe X of Chedleth was sold standing. In *South Malabar* the area to be cleared in Karimpoya for planting was sold standing at Rs. 28-15-2 per acre. Nine bamboo coupes in *North Coimbatore*, most of the fuel coupes and bamboo coupes in *Central Coimbatore*, twenty-eight fuel coupes and the growth on eleven tank beds in *Madura* and all coupes in *Ramnad* and *Tinnevelly* except one in the latter were sold standing.

(iii) & (iv) *By Right-holders and under privileges and free grants.*

37. The following table shows the quantity and estimated value of produce removed by right-holders and free-grantees :—

	Timber.		Fuel.		Bamboos.		Grass and grazing.	Other minor produce.	Total.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value	Value.	Value.
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
Right-holders	63,975	25,486	2,500	28	..	..	568	255	26,337
Free-grantees	20,109	3,130	2,126	147	14,726	242	44	408	3,971
Total ..	84,084	28,616	4,626	175	14,726	242	612	663	30,308

The estimated value of produce and grazing enjoyed by right-holders and removed by free-grantees was Rs. 26,337 and Rs. 3,971, respectively, against Rs. 37,809 and 4,636 in the last year. The quantity of fuel removed by Badagas in the *Nilgiris* on payment of an annual fee of one rupee per house cannot be stated; it is estimated at eight lakhs of head loads per annum. Free grants amounting to Rs. 465 and Rs. 300 were made respectively to religious institutions and works of public utility in *South Canara*.

CHAPTER III.—FINANCIAL RESULTS.

38. The income and expenditure of the year compared with those of last year and the average of the five preceding years were as follow :—

—	1910-1911.	1909-1910.	Average of preceding five years.
	Rs.	Rs.	Rs.
Revenue	100,1,719	11,41,598	9,76,129
Expenditure—			
A.—Conservancy and Works including "Refunds."	5,47,356	6,30,631	5,42,225
B.—Establishments	4,35,134	3,98,620	3,28,141
Total Expenditure ..	9,82,490	10,29,251	8,70,366
Surplus ..	19,229	1,12,347	1,05,763

Compared with last year, the revenue and expenditure show a decrease of Rs. 139,879 and Rs. 46,761 respectively. 62·8 per cent. of the whole revenue was derived from major produce, 26·6 per cent. from minor produce and 10·6 per cent. from miscellaneous sources. Of the expenditure 31·9 per cent. was devoted to the upkeep and improvement of the forests, 40·6 per cent. to exploitation and 27·5 per cent. to miscellaneous items. The proportion of net to gross revenue fell from 9·8 to 1·9 per cent. The amount of revenue outstanding at the close of the year was Rs. 88,385, of which Rs. 11,847 fell due within the year. The estimated value of timber and other produce at the sale depots at the close of the year was Rs. 2,60,183 against Rs. 2,52,156 at the commencement of the year showing a difference of Rs. 8,027 in favour of the year under report.

The chief variations between the actuals of the year and those of the previous year are explained below :—

Receipts.

(i) *By Departmental Agency.*

Timber—68,141. Due chiefly in *South Malabar* partly to lower prices realized for teak logs and partly to non-sale of teak saplings and the stock of timber owing to the depressed state of the timber market at Calicut, and in the *Nilgiris* to sale of only a small quantity of timber obtained from improvement fellings.

Sandalwood—7,065. Due partly to stock having been sold in the previous year, and partly to extraction of smaller quantity of sandalwood in *Kollegal*.

Minor produce—4,723. Due chiefly to smaller quantity of catechu manufactured in *South Canara* and to non-sale of sambur and deer horns in *Kollegal* for want of reasonable offers.

(ii) *By Purchasers.*

Timber—19,780. Due mainly in *North Malabar* to non-sale of timber coupes in Begur owing to low offers, and in *Madura* to lower prices realized for timber.

Fuel + 5,859. Due chiefly to better prices realised by sale of coupes and tank bed areas in *South Canara* and *Madura* respectively and to an increase in the number of coupes sold in *Central Coimbatore*.

Bamboos—5,167. The stoppage of issue of permits for removal of bamboos from two coupes in *South Coimbatore* and sale of a smaller area in *Central Coimbatore* account for the decrease.

Grazing—47,044. Due principally to change of grazing season in *North Malabar*, the four divisions of *Coimbatore*, *Ramnad* and *Tinnevelly*.

Minor produce—Rs. 11,818. Due chiefly to stoppage of leasing manure-leaf-yielding areas in *Madura*.

(iii) *Miscellaneous (including confiscated drift and waifwood).*

Revenue + Rs. 15,763. Due mainly to the collection of arrear and current rents from the lessees of forest lands on the Anamalais and to increased revenue under compounding fees chiefly in *Madura*.

EXPENDITURE.

A.—Conservancy and Works.

The expenditure fell short of the previous year by Rs. 83,275. It was abnormal last year due to the acquisition of forest in the Attapadi valley.

B.—Establishment.

The increase of Rs. 36,514 was due chiefly to (*a*) promotion of the Conservator, (*b*) increments to imperial officers according to the time-scale of pay, (*c*) posting of separate officers to *South Malabar* and *Kollegal* and of a Deputy Conservator to *Central Coimbatore* throughout the year, (*d*) the appointment of a Special Deputy Collector with establishment in *North Coimbatore* for verification of forest boundaries, (*e*) the cost of additional Deputy Rangers and Foresters for the whole year, (*f*) the formation of *Rámnád* division, (*g*) annual increments to the clerical staff and (*h*) increased touring of officers.

CHAPTER IV.—ADMINISTRATION.

39. Mr. F. A. Lodge was in charge of the circle throughout the year.

District charges.—Rámnád district was constituted and a separate officer was placed in charge from 1st January 1911. The *Karúr* taluk was transferred from *Coimbatore* to *Trichinopoly*.

Range charges.—The difficulty of keeping the existing ranges properly manned continued to exist. Failure to carry out works was due to want of establishment. Many Rangers were absent on sick leave and, as there is no reserve to replace them, raw hands had to be put in charge of ranges. Work was also much disorganised by the census for which the services of a large number of subordinates were requisitioned.

Establishment.—The following additional establishment was sanctioned:—One Ranger and one Forester for the Attapadi valley and one Ranger, three Foresters and four guards for working the leased forests in the *Nilgiris*. The protective establishment in *South Canara* was strengthened by the addition of fifteen guards. The clerical establishment of the Forest Range offices was reorganised and 53 permanent and 14 temporary clerks were sanctioned for the circle. The office establishment for the *Central Coimbatore* Forest Division was strengthened and the pay of the clerks raised.

40. *Work of superior officers.*—The following extracts are given of the remarks made by Collectors:—

South Canara—By Mr. Graham.—"Mr. Barry has been active in inspection "and has devoted much study to local peculiarities. M.R.Ry. M. Panchapakesa "Aiyar is careful and painstaking." *Malabar—By Mr. Innes.*—"Mr. Foulkes was "on leave for part of the time during which I have been Collector and his work has "also been impaired by bad health. Mr. Wimbush is an excellent Forest Officer. "He is fortunate in having an interesting division in which there is not much clerical "work and he utilizes to the full the opportunities he has of going about his "forests and supervising all the works that are in progress." *Coimbatore—By Mr. Hemmingway.*—"Mr. Richmond has been in charge of the division throughout the "year, except from 19th September to 18th October 1910 (period spent on privilege "leave) when Mr. C. C. Wilson was in charge of the division. I have a very high "opinion of both these officers. Mr. Littlewood as far as I can judge has worked "efficiently and hard. I am really not in a position to give an opinion on the quality "of Mr. Fischer's work. He was only with me for a short time." *Madura—By Mr. Huggins.*—"The work of the year was generally satisfactory and reflected credit on

"the officers in charge of the department." Mr. Bryant was in charge of the district except for three months when he was on privilege leave. Mr. Myers was in charge during Mr. Bryant's absence. *Ramnad—By Mr. Bryant.*—"Mr. Myers' office was "found to be in an unsatisfactory condition when the Conservator examined it. He "is also partly to blame for the delay in submitting this Administration report, "otherwise things worked fairly smoothly under him. I am not prepared either to "praise or to condemn his administration." *Tinnevelly—By Mr. Hillman.*—"Mr. "Latham's work was, as usual, thorough and excellent. His supervision of his "subordinates is close and unremitting and no detail of the administration escapes "him." *The Nilgiris—By Mr. Rice.*—"Mr. Cox, a thoroughly capable and zealous "officer of whom I have the highest opinion. It is a pleasure to work with him. "Mr. Gaudoin, a conscientious officer but lacking in experience of the hills, will "improve. I have no fault to find with him."

Mr. Lodge, the permanent Conservator, has noted that all superior officers have worked well and with zeal.

41. *Executive Establishment.*—The work of the Rangers with some exceptions is reported to be generally satisfactory, the following being specially mentioned by their respective District Forest Officers for good work. Ranger S. Kuppusamy Chetty was promoted as Extra Assistant Conservator for good work. Rangers Lazrado, P. Venkatramanan, R. Gurusamy Aiyar, Nazareth and Shunmugakumara Pillai and acting Rangers Myers, C. Narayanan, and A. P. Srinivasa Aiyangar. Two Rangers retired and one resigned; one Ranger was reduced, one acting Ranger reverted, the probation of one was terminated and one was dismissed. One acting Ranger was prosecuted for cheating a Permit Issuing Officer and was acquitted, the charge not having been proved. His deputation to the Forest College was cancelled and he was under suspension at the close of the year, pending disposal of several other charges. Of the Deputy Rangers, only three receive special mention; one resigned and one was suspended.

42. *Protective Establishment.*—The conduct of the establishment in *South Malabar* is stated to be good, and that of Foresters in the *Nilgiris* and *North Coimbatore* fairly satisfactory. In other districts, it continued to be unsatisfactory and much improvement cannot be expected until the controlling establishment is strengthened, area of beats reduced and conditions of pay improved. *Madura* district shows 38 suspensions, 16 dismissals and 81 services dispensed with; these include watchers and other menials on temporary establishment. In the other districts 13 men were suspended, 7 reduced and 51 removed from service. One forester was prosecuted for misappropriation and falsification of accounts and one guard for illicit fellings in *Kollegal*; and in *North Coimbatore*, one guard was prosecuted for rescuing cattle impounded by another guard, one for theft of timber and one for extortion. The case against the forester is pending, the guard charged for extortion was acquitted and the others were convicted. One depot keeper in *North Malabar* and a permit-issuing officer in *North Coimbatore* were prosecuted for misappropriation; the latter was convicted and the case against the former was pending.

43. *Ministerial Establishment.*—The difficulty of recruiting qualified and suitable men for Head Clerks and Accountants continued to exist. Work was fairly satisfactory in all offices except *Kollegal* and *Ramnad*; in the former, the bad condition was due to constant changes and in the latter the clerks were new to forest work. The Head Clerks of *South Malabar*, *the Nilgiris*, *North Coimbatore* and *Tinnevelly* offices are specially mentioned for good work. Two clerks in *Kollegal* and one in *South Coimbatore* resigned, the services of two in *Kollegal* and one in *North Coimbatore* were dispensed with. One range clerk in *Central Coimbatore* was suspended and one in *Tinnevelly* was dismissed. The draftsman of the *Central Coimbatore* office whose prosecution was pending at the close of last year was acquitted.

44. *Health of the establishment and casualties.*—The health of the establishment continued to be fair in *Kollegal*, *North Coimbatore*, *Madura and Tinnevelly* and was bad in *South Canara*, *Malabar*, *South Coimbatore* and in part of the *Nilgiris*. One clerk, one Forester, one tramway fitter, three Guards and two watchers died.

45. *Conference of Forest Officers.*—A conference of Forest officers of the circle was held in September 1910 at Coimbatore at which papers were read on different subjects—fire-protection, regulation of grazing, relative merits of departmental and contract work, inadequacy of establishment, etc.—and resolutions were passed on each subject after discussion. The want of adequate establishment was prominently brought to notice.

46. *Relations between Revenue and Forest Officers.*—Satisfactory relations were maintained throughout the circle. Range Officers attended the jamabandi in *South Canara* and *Madura*; several cases of inaccurate demarcation of reserved forests are reported to have been brought to light in the former district. Such attendance is not required in *Malabar* and was not carried out in other districts. Non-attendance in the four divisions of *Coimbatore* was due to non-communication of the jamabandi officers' programmes. In the *Nilgiris*, the District Forest Officer was in constant communication with the Revenue officers and in *Tinnevelly*, matters concerning forest administration were decided as they arose.

47. *Service books* are reported to have been maintained in all districts and verified up to the close of the financial year. In *South Canara* and in *the Nilgiris*, they were verified up to the close of the forest year and to the close of the calendar year respectively.

48. *Tours of the Forest Member.*—The Hon'ble Mr. W. O. Horne inspected the forests and plantations in *South Malabar* and the Papanasam forests in *Tinnevelly* and toured in the *Nilgiri-Wynaad.*

49. *Conservator's inspection.*—All the District Forest offices with the exception of the two divisions of *Malabar* were inspected and found in good order except the *Kollegal* and *Ramnad* offices. The Conservator inspected also the forests of *South Canara, North and South Coimbatore, Kollegal* and part of the forests of *Madura* and spent 209 days in camp. The provisions of section 248 of the Forest Code in the matter of inspection of forests have been complied with with the exception of *North Malabar.*

50. *Touring of District Forest Officers.*—More than six months were spent by all District Forest Officers except the *Nilgiris, South Malabar, Kollegal, and Ramnad* (newly formed from the beginning of the second half of the year). In *South Malabar and Kollegal* the deficiency was due to the charge being held by the District Forest Officers, *North Malabar and North Coimbatore* respectively for about 2½ months.

51. *Inspection of Range offices*—All Range offices and depots were inspected except a range office in each of *Central* and *South Coimbatore* divisions.

52. *Audit of accounts of District Forest Offices.*—The accounts of all District offices except *Ramnad* (newly constituted) were audited by the auditors of the Accountant-General's office and the results were reported to be satisfactory.

53. *Imperial Forest College.*—Two nominees to the Provincial Service, one probationary Ranger and one Deputy Ranger were deputed for training; four Government and one stipendiary students returned from the College with higher standard certificates, one of the former and the stipendiary student with honours. One Deputy Ranger obtained lower standard certificate and one nominee to the Provincial Service failed.

54. *Vernacular Training School.*—The year's session was held in *South Coimbatore.* The school started with 29 students (4 Foresters and 25 Guards); one Forester joined late by one month owing to illness. One student was removed from the school for absence without leave; one Forester and one Guard were on leave for more than two months and were not eligible for certificates. The course was completed after the close of the year and 27 students were granted certificates, of whom 12 secured first class.

CHAPTER V.—GENERAL.

55. *Realization of revenue from the usufruct of toddy-yielding trees, etc.*—The subject is not referred to in the report of *North Malabar*; very small amounts were realized in *South Malabar, Kollegal and Madura.* Rs. 3,356 and Rs. 1,740 were collected in *South Canara* and *Tinnevelly*, respectively, against Rs. 3,579 and Rs. 3,442

in the last year. In addition to the topes which have been leased for ten years, the palmyras in one reserved forest in *Central Coimbatore* was leased ; the amount of the year's lease is not reported.

56. *Measures adopted to encourage the growth of manure-leaf-yielding trees and shrubs.*—A committee consisting of the Conservator of Forests, the Director and the Deputy Director of Agriculture, and the District Forest Officer, Madura, met at Madura on the 3rd and 4th March 1911 to investigate the question of the supply by the Forest Department of green leaf manure to ryots in the *Madura* district and on the conclusions of the committee, the Government decided that the functions of the Forest Department must henceforth be mainly limited to the production and supply of seed for green manure plants. The seigniorage for a cart load of green leaf manure in Madura was raised from As. 5 to Rs. 3. Steps were being taken in *Madura* and *North Coimbatore* to sow *Sesbania aculeata*. The action taken in *Madura* and *Tinnevelly* is dealt with in paragraph 21 *supra*. There is no demand for green manure in the *Nilgiris* and the requirement in other districts is met from private forests and unreserved and patta lands.

57. *Supply of forest produce to meet the wants of the people.*—As in previous years, the people in *South Canara* were allowed to remove free, from reserved forests, thatching grass used also at times as fodder ; a portion of the Baindur reserve was as usual thrown open for free removal of grass and leaves. The private forests and unreserved lands supply the wants in *Malabar*. In the *Nilgiris* the issue of permits for small timber, bamboos and grass was continued. The Badagas had their supply of fuel on an annual fee of Re. 1 per house ; the public of Ootacamund and Coonoor were supplied with fuel, partly from depots, but mostly by direct delivery from coupes. In *Kollegal* and *North Coimbatore* small timber, agricultural implements and bamboos were retailed from forest and sale depots. Depots at the edge of the forests and small coupes were opened in the former district for the convenience of neighbouring villagers and the fuel cut deparmentally in the latter district was sold to contractors who were bound to retail at fixed rates. Permits were issued for the removal of brushwood from coupes under working in *North Coimbatore*. Fuel was retailed to the public from depots and through contractors in *Central* and *South Coimbatore* and also at the edge of coupes in the latter district. The local demand in *Madura* and *Tinnevelly* was met by opening out coupes in the neighbourhood ; the Madura Town depot had an effective check on the price of fuel in the local markets where prices rule high. Small timber for agricultural implements was also sold at seigniorage rates from tank-bed areas in *Tinnevelly*.

58. *Grant of cowles for the formation of casuarina plantations in sandy areas.*—Two applications for grant of such lands were received in Tinnevelly and rejected, the lands applied for having been classed as salt poramboke.

Rules under the Forest Act.

59. (*a*) *Timber Transit rules.*—The rules are reported to have worked satisfactorily in *South Canara*, the four divisions of *Coimbatore*, *Madura* and *Tinnevelly*. The rules in *South Malabar* were in force only so far as the registration of property marks was concerned.

(*b*) *Rules under section* 26 *of the Forest Act.*—The working of these rules is not mentioned in *South Coimbatore* report. The people in *Madura* are reported not to have taken full advantage of the privileges conferred by these rules. In other districts, the rules worked satisfactorily. The area of unreserved lands under the control of the Forest Department was 489 acres in *North Malabar*, 863 acres in *South Malabar*, 278 acres in *Central Coimbatore* and 423 acres in *Madura*. The extent of tank bed areas in *Ramnad* and *Tinnevelly* is not reported. About 3,000 acres of unreserved lands in *North Coimbatore* have been set apart as village forest to be managed by a panchayat composed of Revenue officers and elected non-officials with the technical advice of the Ranger when sought for.

(*c*) *Other rules.*—The sandalwood transit rules in *Kollegal* and *North Coimbatore* worked satisfactorily ; there was one case of illicit felling in the latter district which was compounded. Revised rules for shooting and fishing were sanctioned for the *Nilgiris* and the adjoining areas. The rules for the management of leased forests in *South Malabar* were amended to regulate grazing in such areas.

60. *Hill tribes.*—The settlers in two settlements in *Kollegal* were evicted for refusing labour. Free leases covering 354 acres were continued in *North Coimbatore* to Sholagars who are reported to supply all the labour required. Fresh lands are now applied for on the grounds that the land is exhausted and this is probably correct. In two cases money was advanced for purchase of cattle, the advance being recoverable from their earnings.

61. *Cultivation in reserved forests.*—In *South Canara*, tenant-at-will leases for 15 acres were continued, and fresh leases for about 6 acres were granted; the annual rent amounts to Rs. 31-10-11 Paddy fields covering about 120 acres in New Amarampalam reserve, *South Malabar*, were leased for three years on an annual rent of Rs. 305 and the lease of 4 acres in old Amarampalam continued. In the *Nilgiris* report, the renewal of grants made in the previous years are referred to, but the area and rent are not given. The lease of lands for rubber cultivation in *Kollegal* was extended for two years. The areas leased to Sholagars in *North Coimbatore* on payment of rent was about 38 acres. Leases for all estates on the Anamalais in *South Coimbatore* were registered and grant of further land is under consideration.

Live and Dead Stock.

62. (*a*) *Elephants.*—Elephant-capturing operations were extended to the *Nilgiris* during the year. The number of elephants captured in the circle during the year was 21, of which five died and one was allowed to escape; one of the elephants captured last year died; one was sold and two were transferred to the Northern Circle leaving 107 at the close of the year. Elephant Theebaw in *North Malabar* killed his mahout. The condition of elephants was good. Mahouts who looked after their elephants well were granted rewards in the shape of grain, money and silver bangles.

(*b*) *Bullocks and buffaloes.*—Twenty bullocks were purchased during the year; 18 died, 1 was destroyed and 27 were sold, being unfit for work; the deaths were mainly due to old age. There were 195 bullocks at the close of the year. Out of 34 buffaloes remaining at the beginning of the year, 1 died and 4 were sold; 25 were purchased during the year thus making a balance of 54. It is proposed to replace bullocks by buffaloes, the latter being found more suitable for forest work.

(*c*) *Special Veterinary Inspector.*—Mr. F. X. Mascarenhas inspected the live-stock in the districts repeatedly and continued to do good work. There were very few operations.

(*d*) *Inventory of valuable stock.*—Stock registers are reported to have been maintained in all districts and verified at inspections.

63. *Rain-gauges.*—The readings recorded during the year are given in Appendix F. The readings made in *South Canara* and *Central Coimbatore* are reported to be unreliable.

Museum and Parks.

64. *The Gass Forest Museum at Coimbatore.*—The museum was as usual open to the public and there were 7,308 visitors against 7,362 in the previous year. Two hundred and thirty-seven exhibits of forest products were contributed by the districts. One thousand and one hundred sheets of botanical specimens collected by Mr. C. E. C. Fischer were received back from the Herbarium, Royal Botanical Gardens, Calcutta after verification and kept in the museum. Rs. 136-14-2 were realised by sale of plants, flowers and other produce in the museum garden. Several seedlings of the gold mohar, rain tree, margosa, Butea frondosa and mahagony have been raised and basketted for planting in the Forest College grounds.

65. *The Bryant Park Reserve at Kodaikánal.*—The improvement of the Park was continued and a glass house was constructed; a large number of pine seedlings were raised in the nurseries and basketted for planting in the Upper Palni plantations.

66. *Suits.*—The Courtallam waterfall appeal was decided in favour of Government.

Coimbatore,
24*th September* 1911.

J. S. BATTIE,
Ag. Conservator of Forests, Southern Circle.

TABLE OF CONTENTS.

	PAGE
Appendix A.—District areas and forest reserves	i
Do. B.—Particulars of balance of lands under settlement	ii to iv
Do. C.—Statement showing the area of reserved forests for which final maps have been prepared	v
Do. D.—Abstract of fires	vi & vii
Do. E.—Comparative statement of impounded cattle	viii
Area of reserved forests and reserved lands (No. 65)	ix to xvii
Progress made in, and the expenditure incurred on, forest settlements (No. 66)	xviii to xxiii
Record of demarcation and maintenance of boundaries (No. 67)	xxiv
Forest areas surveyed and under survey (No. 68)	xxv & xxvi
Progress made in working plans (No. 69)	xxvii & xxviii
Communications and buildings (No. 70)	xxix to xli
Register of breaches of Forest Rules (No. 71)	xlii to liii
Appendix to Form No. 71	liv to lvi
Area of forest tracts protected from fire (No. 72)	lvii to lix
Areas open and closed to grazing (No. 73)	lx
Statement of grazing in reserved forests and reserved lands (No. 74) ...	lxi to lxv
Area of plantations, taungya and cultural operations (No. 75)	lxvi & lxvii
Statement showing the outturn of timber and firewood and agency of exploitation (No. 76)	lxviii to lxxxiii
Outturn of minor forest produce (No. 77)	lxxxiv & lxxxv
Account of timber, etc., in depots and sold locally (No. 78)	lxxxvi to lxxxix
Abstract showing the value of timber and other produce at depots (No. 79)	xc to xcii
Summary of revenue and expenditure (No. 80)	xciii to cii
Abstract of the above prepared in the Board's office	ciii & civ
Outstandings and liabilities on account of contractors and disbursers (No. 81)	cv
Revenue received and outstandings on account of revenue (No. 82) ...	cvi
Statement of financial results (No. 83)	cvii
Return of elephants (No. 84)	cviii to cix
Abstract of value of stores, tools and plant (No. 85)	cx

APPENDICES.

APPENDIX A.—District areas and Forest reserves (1910–1911).

District.	(*a*) Total area excluding feudatory and tributary states.	(*b*) Area excluding zamindari, whole inam villages and minor inams in ryotwari tracts.	(*b*) Occupied area.	Particulars of remaining area (columns 3—4).			Reserved forests and reserved lands.			Percentage of column 10 to column 3.	Percentage of column 10 to column 7.
				(*b*) Unoccupied cultivable, uncultivable and forest areas.	(*a*) Areas for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves (columns 8 and 9).		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	ACS.	ACS.	ACS.	ACS.	ACS	ACS.	ACS.	ACS.	ACS.		
Ganjám	5,356,224	1,609,462	415,082	708,825	486,055	1,194,380	383,067	72	383,139	23·80	32·08
Vizagapatam	11,022,478	850,094	199,886	650,208	..	650,208	193,487	6,515	200,002	23·53	30·76
Gódávari	4,099,954	2,186,185	599,663	1,573,690	12,832	1,586,522	534,438	393,555	927,993	42·45	58·49
Kistna	3,780,254	1,567,904	1,003,498	551,520	12,886	564,406	178,231	12,229	190,460	12·15	33·75
Kurnool	4,808,960	4,100,605	1,314,375	2,786,230	..	2,786,230	1,686,652	6	1,686,658	41·13	60·54
Bellary	3,939,205	3,196,340	2,026,607	1,160,856	8,877	1,169,733	399,447	41,867	441,314	13·81	37·73
Anantapur	4,267,320	3,704,994	1,519,032	2,185,962	..	2,185,962	481,608	49,074	530,682	4·32	24·28
Total ..	37,274,395	17,215,584	7,078,143	9,616,791	520,650	10,137,441	3,856,930	503,318	4,360,248	25·33	43·01
Central Circle. *											
Cuddapah	5,582,739	4,871,596	1,449,215	3,422,381	..	3,422,381	1,163,469	620	1,164,089	..	..
Nellore	5,097,300	2,317,494	946,810	1,370,684	..	1,370,684	471,677	..	471,677	20·35	34·41
Chingleput	1,971,041	1,305,741	667,321	638,420	..	638,420	136,575	64	136,639	10·46	21·40
North Arcot	4,721,846	2,509,479	915,694	1,593,785	..	1,593,785	796,017	413	796,430	..	..
Chittoor							536,561	856	537,417	..	..
South Arcot	3,339,520	2,991,972	1,721,950	1,270,022	..	1,270,022	221,167	..	221,167	..	..
Salem	4,818,982	3,576,091	1,505,337	2,070,754	..	2,070,754	878,929	33,090	912,019	..	..
Trichinopoly	2,330,509	1,713,442	1,135,408	578,034	..	578,034	227,714	2,504	230,218	6·97	22·73
Tanjore	2,375,387	1,684,828	1,150,250	434,578	..	434,578					48·79
Guntúr	3,670,374	2,878,904	1,810,657	1,068,247	..	1,068,247	521,239	8	521,247	18·10	
Total ..	33,907,698	23,749,547	11,302,642	12,446,905	..	12,446,905	4,953,348	37,555	4,990,903	21·01	40·09
Southern Circle.											
South Canara	2,573,389	2,573,389	762,555	1,810,834	2,054	1,812,888	508,677	70,310	578,987	22·50	31·94
Malabar	3,708,321	3,690,019	1,353,395	2,336,624	..	2,336,624	293,414	66,048	359,462	9·74	15·38
The Nilgiris (*c*).	646,061	653,799	193,864	459,935	..	459,935	291,606	52,548	344,154	52·64	74·83
Coimbatore	4,989,867	4,557,986	2,512,163	2,045,823	..	2,045,823	1,320,092	165,458	1,485,550	32·59	72·61
Madura	3,146,485	2,075,835	1,154,956	920,879	..	920,879	426,128	1	426,129	20·53	46·27
Rámnád	3,159,226	447,166	264,987	182,179	..	182,179	46,484	274	46,758	10·46	25·67
Tinnevelly	2,744,237	1,796,590	1,206,568	590,022	..	590,022	226,819	798	227,617	12·67	38·58
Total ..	20,967,586	15,794,784	7,448,488	8,346,296	2,054	8,348,350	3,113,220	355,437	3,468,657	21·97	41·55
Grand Total ..	92,149,679	56,759,915	25,829,273	30,409,992	522,704	30,932,696	11,923,498	896,310	12,819,808	22·59	41·44

(*a*) Area by professional survey. (*b*) Area according to village papers. (*c*) Revised areas furnished by the Collector.

* As figures for columns 2 to 7 are not yet available in the Settlement Department of the Board's office after territorial changes made, those given in the last Administration Report have been adopted and the percentages in columns 11 and 12 to the districts affected have therefore been omitted.

Appendix B.—Particulars of balance of lands under Settlement.

District.	Forest settlement.					
	Total number and area of blocks under settlement up to the end of 1910-1911.		Total number and area of blocks constituted finally as reserved forests up to the end of 1910-1911.		Balance at the end of 1910-1911.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	57	599	56	599	1	(*b*) ..
Vizagapatam	55	(*c*) 312	54	302	1	10
Godavari, Upper	29	(*c*) 428	29	428	..	..
Do. Lower	44	482	43	407	1	75
Kistna	75	(*c*) 278	75	278	..	..
Kurnool, East	27	1,003	27	1,003	..	..
Do. South	33	774	33	774	..	..
Do. West	43	858	42	858	1	(*b*) ..
Bellary	169	(*a*) 627	167	624	2	3
Anantapur	139	(*c*) 764	132	753	7	11
Total ..	671	6,125	658	6,026	13	99
Central Circle.						
Cuddapah, North	79	(*d*) 734	79	734	..	..
Do. East	67	1,083	67	1,083	..	..
Nellore	226	737	226	737	..	..
Chingleput	198	213	198	213	(*g*) ..	0·1
Arcot, North	178	(*d*) 1,244	176	1,244	2	(*b*)
Chittoor	126	840	123	839	3	1
Arcot, South	129	(*e*) 346	129	346	..	..
Salem, North	77	838	75	792	2	46
Do. South	86	(*e*) 587	84	581	2	6
Trichinopoly	155	360	152	356	3	4
Guntúr	180	814	179	814	1	(*b*)
Total ..	1,501	(*f*) 7,796	1,488	7,739	13	57
Southern Circle.						
South Canara	176	797	175	795	1	2
Malabar, North	29	262	28	261	1	1
Do. South	6	143	5	108	1	35
The Nilgiris	436	478	435	478	1	(*b*)
Kollegal	13	705	10	447	3	258
Coimbatore, North	20	921	17	921	3	(*b*)
Do. Central	45	355	41	307	4	48
Do. South	(*h*) 15	454	(*h*) 15	454	..	..
Madura	151	666	150	666	1	(*b*)
Rámnád	23	73	12	73	11	(*b*)
Tinnevelly	(*i*) 79	355	(*i*) 63	354	16	1
Total ..	993	5,209	951	4,864	42	345
Grand Total ..	3,165	19,130	3,097	18,629	68	501

(*a*) Excludes 63 square miles, Sandur leased forests.
(*b*) Below one square mile.
(*c*) Excludes Reserved lands under section 26 (Vizagapatam, less than one square mile, Upper Gódávari, 540 square miles, Kistna, 19 square miles and Anantapur, 66 square miles).
(*d*) Difference due to disafforestation of areas.
(*e*) Due to correct computation of areas.
(*f*) Excludes two square miles of reserved lands notified under section 26.
(*g*) Enclosures within reserves.
(*h*) Two blocks transferred to Trichinopoly district deducted.
(*i*) Two blocks which are extensions deducted.

Particulars of balance of lands under Settlement—*cont.*

District.	Settled and reported on.								Settled but not reported on.		Settlement proceeding.	
	Notified under section 16 during 1910–1911, but reservation effected only after 30th June 1911.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with the Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.					
	Number.	Area.	Number	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ.MLS.		SQ.MLS.		SQ. MLS.
Ganjám	..	..	..	..	..	..	..	..	1	(*a*)	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	1	10
Gódávari, Upper ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..	..	..	..	..	1	75	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	1	(*a*)
Bellary	1	2	..	..	..	..	1	2	..	..	1	1
Anantapur ..	..	..	..	..	..	..	..	..	1	(*a*)	6	11
Total ..	1	2	..	..	..	..	1	2	3	75	9	22
Central Circle.												
Cuddapah, North..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	(*a*)	..	..	..	(*a*)	..	..	..	..
Arcot, North ..	..	..	..	..	..	..	..	..	..	..	2	(*a*)
Chittoor	..	..	2	1	..	..	2	1	..	..	1	(*a*)
Arcot, South ..	..	..	..	..	..	..	..	..	..	..	..	..
Salem, North ..	..	..	..	..	..	..	..	..	1	46	1	(*a*)
Do. South ..	..	..	..	..	..	..	..	..	..	..	2	6
Trichinopoly ..	..	..	..	..	1	1	1	1	..	..	2	3
Guntúr	..	..	..	..	..	..	..	..	..	..	1	(*a*)
Total ..	..	..	2	1	1	1	3	2	1	46	9	9
Southern Circle.												
South Canara ..	..	..	..	..	1	2	1	2	..	..	..	..
Malabar, North ..	1	1	..	..	..	..	1	1	..	..	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	1	35
The Nilgiris ..	..	..	..	..	..	..	..	..	1	(*a*)	..	..
Kollegal	..	..	..	..	1	246	1	246	1	(*a*)	1	12
Coimbatore, North.*	..	..	..	..	..	..	..	..	1	(*a*)	2	(*a*)
Do. Central.*	..	..	..	..	..	..	..	..	2	47	2	(*a*)
Madura *	..	..	..	..	..	..	..	..	..	..	1	(*a*) 1*
Rámnád *	..	..	..	..	..	..	..	..	6	(*a*)	5	(*a*)
Tinnevelly * ..	..	..	..	..	..	..	..	..	6	1	10	(*a*)
Total ..	1	1	..	..	2	248	3	249	17	48	22	48
Grand Total ..	2	3	2	1	3	249	7	253	21	169	40	79

(*a*) Below one square mile.
* The area of the blocks shown in column 18 against these districts is taken as one square mile.

Particulars of balance of lands under Settlement—*cont.*

District.	Of lands notified under section 4.																													
	1894-95.		1895-96.		1896-97.		1897-98.		1898-99.		1899-00.		1900-01.		1901-02.		1902-03.		1903-04.		1904-05.		1905-06.		1906-07.		1907-08.		1908-09.		1909-10.		1910-11.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
Northern Circle.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.
Ganjám ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	10
Gódávari, Upper	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower	..	..	..	.	..	..	..	..	..	..	..	..	..	..	1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna		..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..‡	1	(a)
Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	1	2	1	1	..	..	..	..
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	3	10	3	1
Total	..	..	..	..	..	..		..	..	..	..	..	..	..	1	75	..	..	..	..	..	..	..	..	..	..	1	2	2	1	4	10	5	11
Central Circle.																																		
Cuddapah, North.	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	.	..	..	..
Do. East..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(a)	..	(a)
North Arcot .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	1	(a)	1	(a)
Chittoor	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..
Salem, North ..	..	..	..	..	..	..	..	..	..	..	..	..	1	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	6	..	..
Trichinopoly ..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	..	..
Guntúr ..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	..	..
Total ..	..	..	..		..	..	..	..	..	..	..	..	1	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	9	3	(a)
Southern Circle.																																		
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..
Malabar, North	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
Do. South	..	..	..	..	..	..	..	..	..	..	..	..	..	..‡	..	..	..	..	1	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
Kollegal ..	1	246	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	1	12	..	..	1	(a)	..	..
Coimbatore, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	..	..	..	..	2	(a)	..	..
Do. Central.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	47	..	..	..	..	2	(a)
Madura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	1	(a)
Rámnád	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	(a)	6	(a)
Tinnevelly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	(a)	3	(a)	10	1
Total ..	1	246	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	35	..	..	..	..	2	2	3	59	3	(a)	12	1	20	1
Grand Total ..	1	246	..	..	..	..	..	..	..	..	..	..	1	46	1	75	..	..	1	35	..	..	..	.	2	2	4	61	5	1	22	20	28	12

(*a*) Below one square mile.

APPENDIX C.—Statement showing the area of reserved forests for which final maps have been prepared.

District.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.	Remarks.
Northern Circle.	SQ. MLS.	SQ. MLS.	
Ganjám	* 599	599	* *Vide* remark at foot of form 65.
Vizagapatam	302	298	
Gódávari, Upper	428	428	
Do. Lower	407	407	
Kistna	278	137	
Kurnool, East	1,003	999	
Do. South	774	637	
Do. West	858	598	
Bellary	624	563	
Anantapur	753	567	
Total ..	6,026	5,233	
Central Circle.			
Cuddapah, North	734	734	
Do. East	1,083	1,083	
Nellore	737	735	
Chingleput	213	213	
Arcot, North	1,244	1,229	
Chittoor	839	839	
Arcot, South	346	346	
Salem, North	792	792 † 46	† Area of reserved lands pending notification under section 16.
Do. South	581	581	
Trichinopoly	356	‡ 347	‡ Final maps for 8 square miles have yet to be prepared.
Guntúr	814	§ 191	§ No areas were mapped during the year. The difference between this and last year's return is due to settlement maps having been treated as final maps previously.
Total ..	7,739	7,136	
Southern Circle.			
South Canara	795	678	
Malabar, North	261	..	
Do. South	108	..	
The Nilgiris	478	86	
Kollegal	447	446	
Coimbatore, North	921	919	
Do. Central	307	252	
Do. South ..	454	454	
Madura	666	608	
Rámnád	73	73	
Tinnevelly	354	347	
Total ..	4,864	3,863	
Grand Total ..	18,629	16,232	

APPENDIX—D.

Division.	A. Fires caused by accident or through carelessness when burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas. Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers of produce and by hay cutters.		By villagers, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjám	6	84	9	16,450	..	..	10	441	..	..	..	..
Vizagapatam	1	3	..	..	1	10	6	31	..	..	..	..
Gódávari, Upper ..	2	108	2	1,293	..	..	..	..	..	..	..	..
Do. Lower ..	..	..	7	835	1	..	12	289	..	..	..	..
Kistna	1	2	..	..	..	..	5	185	..	..	..	..
Kurnool, East	..	..	4	1,740	..	..	..	..	..	..	..	..
Do. South	5	608	..	..	..	..	8	7,024	1	96	1	314
Do. West	3	630	2	74	..	26,888	34	65,103	2	1,905	..	..
Bellary	1	10	..	..	..	..	..	..	2	455	..	..
Anantapur	2	7	1	278	2	..	3	115	..	..	..	..
Total ..	21	1,452	25	20,670	4	26,898	78	73,188	5	1,556	1	314
Total for 1909-1910 ..	38	20,564	93	157,823	13	673	115	27,760	1	246	..	..
Central Circle.												
Cuddapah, North ..	1	5	10	3,222	3	921	..	..	..	..	..	..
Do. East ..	2	200	2	560	..	..	4	856	..	..	..	..
Nellore	..	..	2	530	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	1	* ..	..	..	..	..
Arcot, North	2	40	6	611	..	..	9	369	1	75	..	..
Chittoor	..	..	7	257	..	..	9	223	2	2	4	17
Arcot, South	..	..	..	..	..	..	1	18	..	..	..	..
Salem, North	3	650	..	..	..	..	3	210	..	..	..	..
Do. South	..	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly	..	..	..	..	..	..	..	..	..	..	..	..
Guntúr	..	..	1	30	..	..	18	168	..	..	..	..
Total ..	8	895	28	5,210	3	921	45	1,844	3	77	4	17
Total for 1909-1910 † ..	8	491	28	17,193	6	168	41	3,895	2	41	1	30
Southern Circle.												
Canara, South	10	35	73	2,275	4	24	143	5,206	..	..	..	..
Malabar, North	2	20	3	431	..	..	..	..	..	..	..	..
Do. South ‡ ..	2	338	..	..	2	301	1	Less than 1 acre.	..	..	..	..
The Nilgiris ‡	1	15	2	14	..	..	6	426	..	..	..	..
Kollegal	1	15	7	2,972	..	..	4	5,865	..	..	..	..
Coimbatore, North ..	2	55	1	500	..	..	4	387	..	..	..	..
Do. Central ..	..	..	4	260	3	271	4	16	2	6	..	..
Do. South ..	..	..	1	10	..	..	1	60	..	..	1	2
Madura	1	2	9	794	..	..	1	80	..	..	..	..
Rámnád	1	70	5	939	..	..	3	110	..	..	..	..
Tinnevelly	2	2,502	3	5	1	8	6	900	..	..	..	..
Total ..	22	3,052	108	8,200	10	604	173	13,050	2	6	1	2
Total for 1909-1910 ..	41	5,994	46	15,269	11	570	157	10,627	..	..	8	1,723
Grand Total for 1910-1911	51	5,399	161	34,080	17	28,423	296	88,082	10	1,639	6	333
Grand Total for 1909-1910	87	27,049	167	190,285	30	1,411	313	42,282	3	287	9	1,753

* Less than one acre. † Includes figures for Kadiri range transferred to Northern Circle.
‡ Includes the number of fires in the areas not under special protection.

APPENDIX D—*cont.*

Division.	C. Fires beginning inside the reserves or fire-traced areas—*cont.*								Causes unknown.		Total of A, B and C and causes unknown.	
	By intentional firing.											
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.					
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												
Ganjám	..	..	..	..	11	767	21	1,208	59	5,467	95	23,209
Vizagapatam	..	..	..	..	..	..	7	41	2	7,300	10	7,344
Gódávari, Upper	..	..	..	..	..	..	..	..	1	50	5	1,451
Do. Lower	..	..	1	500	..	..	14	789	12	128	33	1,752
Kistna	..	..	..	..	..	..	5	185	7	432	13	619
Kurnool, East	..	..	..	..	..	..	..	..	4	305	8	2,045
Do. South	1	340	..	..	3	334	14	8,608	5	665	24	9,881
Do. West	10	374	3	2,472	..	..	49	95,842	37	61,574	91	158,120
Bellary	..	..	..	..	2	182	4	637	8	12,031	13	12,678
Anantapur	2	53	..	..	8	2,333	15	2,501	154	46,924	172	49,710
Total ..	13	767	4	2,972	24	4,116	129	109,811	289	134,876	464	266,809
Total for 1909-1910 ..	16	15,389	23	87,554	22	16,066	190	147,688	186	293,645	507	619,720
Central Circle.												
Cuddapah, North ..	56	11,201	3	663	2	80	64	12,865	36	11,350	111	27,442
Do. East ..	56	34,648	..	..	5	469	65	35,973	2	80	71	36,813
Nellore	..	..	..	..	..	..	..	..	..	..	2	(*a*) 530
Chingleput	..	..	..	..	..	..	1	..	..	..	1	..
Arcot, North	22	719	3	110	6	718	41	1,991	92	4,674	141	7,316
Chittoor	66	5,270	3	100	8	694	92	6,303	2	220	101	6,783
Arcot, South	..	..	..	..	..	..	1	18	1	1	2	19
Salem, North	..	..	..	..	..	..	3	210	21	4,746	27	5,606
Do. South	..	..	..	..	2	59	2	59	46	2,202	48	2,261
Trichinopoly	1	1	..	..	..	..	1	1	8	248	9	(*b*) 249
Guntúr	..	..	1	600	..	..	19	768	..	..	20	798
Total ..	201	51,839	10	1,473	23	2,020	289	58,191	208	23,521	533	87,317
Total for 1909-1910 * ..	157	65,915	7	12,860	21	6,395	235	89,304	355	51,846	626	158,834
Southern Circle.												
Canara, South	16	609	11	1,314	70	3,954	244	11,107	37	767	364	(*c*)14,184
Malabar, North	..	..	..	..	..	..	..	..	1	382	6	883
Do. South ..	..	..	..	..	..	..	3	301	..	..	5	639
Tinnevelly	8	1,610	..	..	4	13,750	18	15,786	..	..	21	15,815
Kollegal	11	5,680	..	..	1	30	16	11,575	6	1,988	30	16,550
Coimbatore, North ..	2	320	..	..	5	1,705	11	2,412	19	5,270	33	8,237
Do. Central ..	..	..	..	..	..	..	9	293	11	403	24	956
Do. South ..	4	130	4	148	..	..	10	340	4	1,111	15	1,461
Madura	4	154	..	..	1	100	3	334	29	1,948	42	3,078
Rámnád	..	..	..	..	..	..	3	110	1	1,800	10	(*d*)2,919
Tinnevelly	4	753	1	100	8	1,333	20	3,094	..	..	25	5,601
Total ..	46	9,256	16	1,562	89	20,872	337	45,352	108	13,669	575	70,273
Total for 1909-1910 ..	54	11,917	8	5,013	44	22,005	282	51,855	153	66,802	522	139,920
Grand Total for 1910-1911	260	61,862	30	6,007	136	27,008	755	213,354	605	172,066	1,572	424,899
Grand Total for 1909-1910	227	93,221	38	105,427	87	44,466	707	288,847	694	412,293	1,655	918,474

* Includes figures for Kadiri range transferred to Northern Circle.
(*a*) Excludes 30 acres in unprotected area. (*b*) Relates to unprotected areas.
(*c*) Includes the number of fires in the areas not under special protection.
(*d* The difference between this and the area in column 5 of Form 72 has not been explained by the Collector.

Appendix E.—Comparative statement of impounded cattle.

Districts.	From open forests.		From closed forests.				Total.		Average for three years ending 1909–1910.
			Holding permits for open forests.	Having no permits.	Holding permits for open forests.	Having no permits.			
	1909–1910.	1910–1911.	1909–1910.		1910–1911.		1909–1910.	1910–1911.	
Northern Circle.									
Ganjám	3,448	1,958	..	450	1,439	564	3,898	3,961	3,091
Vizagapatam ..	2,555	605	..	68	..	2,136	2,623	2,741	2,404
Gódávari, Upper ..	13	..	..	..	..	..	13	..	57
Do. Lower ..	1,154	633	..	135	..	600	1,289	1,233	995
Kistna	1,591	2,461	639	1,306	361	1,020	3,536	3,842	3,608
Kurnool, East ..	..	2,738	..	..	..	..	..	2,738	..
Do. South ..	5,543	7,440	..	3,652	..	1,035	9,195	8,475	8,843
Do. West ..	9,308	12,810	..	4,249	35	3,287	13,557	16,132	18,140
Bellary	12,287	7,388	2,178	2,727	471	1,278	17,192	9,137	19,466
Anantapur	9,780	5,867	..	1,490	21	1,240	11,270	7,128	10,735
Total ..	45,679	41,900	2,817	14,077	2,327	11,160	62,573	55,387	67,339
Central Circle.									
Cuddapah, North.	2,580	5,673	294	2,151	192	3,949	5,025	9,814	5,667
Do. East ..	4,756	1,585	298	2,788	2,280	1,012	7,842	4,877	6,592
Nellore	11,306	13,385	1,486	6,964	1,098	5,005	19,756	19,488	19,290
Chingleput ..	5,932	2,283	276	828	485	1,854	7,036	4,572	5,550
North Arcot ..	12,877	13,348	442	4,572	414	4,867	17,891	18,629	17,911
Chittoor	10,218	7,770	501	3,157	97	2,313	13,876	10,180	11,555
South Arcot ..	11,472	11,755	..	682	53	686	12,154	12,494	17,407
Salem, North ..	1,502	1,166	120	1,127	138	526	2,749	1,830	3,433
Do. South ..	2,281	1,566	401	1,503	22	1,632	4,185	3,220	5,205
Trichinopoly ..	2,991	6,200	503	4,501	..	81	7,995	6,281	7,984
Guntúr	11,268	10,485	3,792	6,636	3,412	14,748	21,696	28,645	14,920
Total ..	* 77,183	75,166	* 8,113	* 34,909	8,191	36,673	* 120,205	120,030	115,514
Southern Circle.									
Canara, South ..	924	775	6	40	14	69	970	858	1,027
Malabar, North ..	43	11	..	8	..	67	51	78	46
Do. South ..	..	..	..	189	..	114	189	114	160
The Nilgiris ..	587	382	39	7	96	185	633	663	429
Kollegal ..	2,923	2,429	23	..	56	66	2,946	2,551	9,889
Coimbatore, North ..	5,515	2,464	23	908	5	26	6,446	2,495	
Do. Central ..	757	488	..	1,689	..	1,778	2,446	2,266	
Do. South ..	699	436	89	27	..	220	815	656	
Madura	3,579	5,937	1,343	1,021	420	3,336	5,943	9,693	8,747
Rámnád	929	857	1,747	4,037	553	910	6,713	2,320	6,004
Tinnevelly ..		1,164			435	3,383		4,982	
Total ..	15,956	14,943	3,270	7,926	1,579	10,154	27,152	26,676	26,302
Grand Total ..	138,818	132,009	14,200	56,912	12,097	57,987	209,930	202,093	209,155

* Excludes figures for Kadiri range transferred to Northern Circle.

N.B.—The district reports of the Central Circle furnish no satisfactory explanation for the variations.

ANNUAL FORM No. 65.

Forest Department, Madras Presidency.

AREA of reserved forests and reserved lands during 1910–1911.

District.	Area of reserved forests.						Area of reserved lands.						Total area of reserved forests and reserved lands.
	Area on 1st July 1910.		Added during the year.	Excluded during the year.	Area on 30th June 1911.		Area on 1st July 1910.		Added during the year.	Excluded during the year.	Area on 30th June 1911.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Northern Circle.													sq. MILS.
Ganjám	383,067	598	..	..	383,067	(*b*) 599	72	..	..	..	72	..	599
Vizagapatam	190,862	298	2,625	..	193,487	302	2,625	4	6,515	2,625	6,515	10	312
Gódávari, Upper	273,746	428	..	..	273,746	428	..	..	345,600	..	345,600	540	968
Do. Lower	260,692	407	..	..	260,692	407	47,955	75	..	..	47,955	75	482
Kistna	178,231	278	..	..	178,231	278	12,229	19	..	..	12,229	19	297
Kurnool, East	(*a*) 644,813	(*a*) 1,008	3,560	6,603	641,770	1,003	..	..	..	..	..	..	1,003
Do. South	(*a*) 495,608	(*a*) 774	..	..	495,608	774	..	..	..	..	..	..	774
Do. West	(*a*) 549,280	(*a*) 858	..	6	549,274	858	..	..	6	..	6	..	858
Bellary	399,447	624	..	..	399,447	624	41,792	66	75	..	41,867	66	690
Anantapur	341,936	535	139,682	10	481,608	753	18,527	29	31,145	598	49,074	77	830
Total	3,717,682	5,808	145,867	6,619	3,856,930	6,026	123,200	193	383,341	3,223	503,318	787	6,813
Central Circle.													
North Cuddapah	470,359	735	..	286	470,073	734	620	1	..	..	620	1	735
East do.	693,397	1,083	..	1	693,396	1,083	..	..	..	..	..	..	1,083
South do.	338,380	529	..	{ (*d*) 139,329 (*e*) 199,051 }	..	..	..	..	..	..	..	..	..
Nellore	471,724	737	..	47	471,677	737	..	..	..	..	..	..	737
Chingleput	136,566	213	9	..	136,575	213	67	..	6	9	64	..	213
North Arcot	474,802	742	324,964	3,749	796,017	1,244	327	1	86	..	413	1	1,245
Chittoor	350,025	547	199,516	12,980	536,561	839	1,315	2	6	465	856	1	840
South Arcot	426,274	666	591	205,698	221,167	346	..	..	(*c*) ..	..	..	..	346
North Salem	595,300	931	18,159	106,297	507,162	792	29,290	46	10	..	29,300	46	838
South do.	429,046	670	353	57,632	371,767	581	3,790	6	..	..	3,790	6	587
Trichinopoly	191,611	299	36,166	63	227,714	356	3,644	6	(*c*) ..	1,140	2,504	4	360
Guntúr	521,239	814	..	..	521,239	814	8	..	..	..	8	..	814
Total	5,098,723	7,966	579,758	725,133	4,953,348	7,739	39,061	62	108	1,614	37,555	59	7,798
Southern Circle.													
Canara, South	558,083	872	2,431	51,837	508,677	795	72,873	114	..	2,563	70,310	110	905
Malabar, North	166,892	261	..	..	166,892	261	504	1	..	9	495	1	262
Do. South	104,111	163	..	34,848	69,263	108	40,926	64	..	5,703	35,223	55	163
The Nilgiris	308,682	482	13	2,534	306,161	478	54,882	86	31	2,365	52,548	82	560
Kollegal	286,358	447	..	165	286,193	447	165,063	258	..	..	165,063	258	705
Coimbatore, North	577,832	903	11,543	..	589,375	921	10,511	16	..	10,240	271	..	921
Do. Central	196,657	307	13	70	196,600	307	30,343	47	124	13	30,454	48	355
Do. South	292,515	457	14	1,901	290,628	454	..	..	..	..	..	..	454
Madura	426,503	666	..	375	426,128	666	..	..	1	..	1	..	666
Rámnád	46,515	73	6	37	46,484	73	150	..	130	6	274	..	73
Tinnevelly	233,386	364	519	7,086	226,819	354	912	2	405	519	798	1	355
Total	3,197,534	4,995	14,539	98,853	3,113,220	4,864	376,164	588	691	21,418	355,437	555	5,419
Grand Total, presidency	12,013,939	18,769	740,164	830,605	11,923,498	18,629	538,425	843	384,140	26,255	896,310	1,401	20,030

(*a*) Redistribution amongst the three new divisions. (*b*) Corrected to round off figures.

(*c*) Excludes 316 acres and 1,106 acres of padugai lands transferred in South Arcot and Trichinopoly districts respectively to the control of the Forest Department.

(*d*) Area of the Kadiri range of the old South Cuddapah division transferred to Anantapur. (*e*) Area of the Voyalpad range of the old South Cuddapah division transferred to Anantapur.

Area of reserved forests and reserved lands during 1910–1911.

District.	Name of forest.	Area on 1st July 1910.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1911.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	Northern Circle.							
	Reserved forests.							
Ganjam.	Area notified in previous years ..	383,067	598	..	..	383,067	(a) 599	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	72	..	..	..	72	0·11	
	Reserved forests.							
Vizagapatam.	Area notified in previous years .	190,862	298	..	..	190,862	298	
	Added—Somaralli and its extension.	..	..	2,625	..	2,625	4·10 or 4	No. 62, dated 17th January 1911.
	Total ..	190,862	298	2,625	..	193,487	302	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	2,625	4	..	..	2,625	4	
	Added—Sarugudu block VI ..	..	..	6,501	..	6,501	10·16	No. 219, dated 20th April 1911.
	Sâl area near Donabai	..	..	* 14	..	14	0·02	* Notified during 1909-1910 under rule 2 of the rules for the management of Forests and waste lands in Palakonda and Golgonda Agency tracts but omitted by mistake last year.
	Total ..	2,625	4	6,515	..	9,140	14·18	
	Excluded—Samaralli and its extension.	..	..	..	2,625	2,625	4·10	Transferred to reserved forests.
	Net area ..	2,625	4	6,515	2,625	6,515	10·08 or 10	
	Reserved forests.							
Godâvari, Upper.	Area notified in previous years.	273,746	428	..	..	273,746	428	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years.	..	..	..	..	..	..	
	Added—Reserved and unreserved lands of Nugur taluk.	..	..	345,600	..	345,600	540	No. 236, dated 7th May 1911.
	Total ..	..	..	345,600	..	345,600	540	
	Reserved forests.							
Godâvari, Lower.	Area notified in previous years ..	260,692	407	..	..	260,692	407	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	47,955	75	..	..	47,955	75	
	Reserved forests.							
Kistna.	Area notified in previous years..	178,231	278	..	..	178,231	278	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years.	12,229	19	..	..	12,229	19	

(a) As per foot-note.

Area of reserved forests and reserved lands during 1910–1911—*cont.*

District.	Name of forest.	Area on 1st July 1910.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1911.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	NORTHERN CIRCLE—*cont.*							
	Reserved forests.							
Kurnool, East.	Area notified in previous years.	644,813	1,008	..	..	644,813	1,008	
	Added—							
	Markapur reserve	..	..	3,560	..	3,560	5·56	Rectification as per area given in survey of India sheets.
	Total ..	644,813	1,008	3,560	..	648,373	1,013·56	
	Excluded—							
	Cumbum reserve	..	..	..	6,519	6,519	10·19	Do.
	Buddivid extension	..	..	..	84	84	0·13	Rectification of error —*vide* area statement printed in Board's Proceedings, Forest No. 89, dated 12th April 1905.
	Total exclusion ..	..	..	..	6,603	6,603	10·32	
	Net area ..	644,813	1,008	3,560	6,603	641,770	1,003·24 or 1,003	
	***Reserved lands not transferred to reserved forests during the year*—Nil.**							
	Reserved forests.							
Kurnool, South.	Area notified in previous years..	495,608	774	..	..	495,608	774	
	***Reserved lands not transferred to reserved forests during the year*—Nil.**							
	Reserved forests.							
Kurnool, West.	Area notified in previous years ..	549,280	858	..	..	549,280	858	
	Excluded—							
	Portion of Paniem reserve (portion field survey No. 434 of Bugganipalli village, Nandyal taluk) ..	..	..	..	6·17 or 6	6·17 or 6	0·01	Government Order (official memorandum) No. 3017-A/10-1, Revenue, dated 26th July 1910.
	Net area ..	549,280	858	..	6	549,274	858·01 or 858	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	..	..	..	..	..	..	
	Added—							
	Paniem reserve addition .	..	..	6·17 or 6	..	6·17 or 6	0·01	No. 594, dated 19th October 1910.
	Total ..	..	..	6	..	6	0·01	
	Reserved forests.							
Bellary.	Area notified in previous years..	399,447	624	..	..	399,447	624	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	41,792	* 65·30	..	..	41,792	65·30	* As per correct calculation.
	Added—							
	Moka plantation	..	..	75	..	75	0·12	Correction made during Settlement—*vide* foot-note to area statement printed in Board's Proceedings, Forest No. 110, dated 21st April 1911.
	Total ..	41,792	65·30	75	..	41,867	65·42 or 66	
	Reserved forests.							
Anantapur.	Area notified in previous years..	341,936	535	..	..	341,936	535	
	Added—							
	Kuderu extension	..	..	598	..	598	0·93	No. 161, dated 15th March 1911.
	25 Reserves in Kadiri taluk.	..	..	139,084	..	139,084	217·32	Transferred from Central Circle—*vide* notification No. 381, dated 16th July 1910.
	Total ..	341,936	535	139,682	..	481,618	753·25	
	Excluded—							
	Portion of Jambugumpala.	..	..	..	10	10	0·02	Due to rectification of boundary between Anantapur and Mysore territory.
	Net area ..	341,936	535	139,682	10	481,608	753·23 or 753	

Area of reserved forests and reserved lands during 1910–1911—*cont.*

District.	Name of forest.	Area on 1st July 1910. Acres.	Area on 1st July 1910. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1911. Acres.	Area on 30th June 1911. Equivalent in square miles.	Number and date of notification of addition or transfer.
				NORTHERN CIRCLE—*cont.*				
				Reserved lands not transferred to reserved forests during the year.				
Anantapur—*cont.*	Area notified in previous years..	18,527	29	..	..	18,527	29	
	Added—							
	Agraharam additions I and II.	..	..	0·21	..	0·21	..	No. 11, dated 20th December 1910.
	Cherlopalli addition I ..	..	..	0·08	..	0·08	..	
	Amagondapaliem extension.	..	..	9,875	..	9,875	15·43	Notified by Collector under section 26.
	Mushtikonda	..	..	21,270	..	21,270	33·23	
	Total ..	18,527	29	31,145·29	..	49,672·29	77·66	
	Excluded—							
	Kuderu extension	..	..	..	598	598	0·93	Transferred to reserved forests.
	Net area ..	18,527	29	31,145	598	49,074	76·73 or 77 sq. mls.	
				CENTRAL CIRCLE.				
				Reserved forests.				
Cuddapah, North.	Area notified in previous years..	470,359	735	..	286	470,073	734	Disafforested, notification No. 441, dated 3rd August 1910.
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	620	1	..	..	620	1	
				Reserved forests.				
Cuddapah, East.	Area notified in previous years ..	693,397	1,083	..	1	693,396	1,083	Notification No. 50, dated 9th January 1911.
				Reserved lands not transferred to reserved forests during the year—Nil.				
				Reserved forests.				
Nellore ..	Area notified in previous years ..	471,724	737	..	47	471,677	737	Disafforested 9·19 acres in Udayagiri, Durgam Hill reserve notification No. 175, dated 21st March 1911, 38·11 acres in Tummalapenta North reserve, notification No. 131, dated 28th February 1910.
				Reserved lands not transferred to reserved forests during the year—Nil.				
				Reserved forests.				
Chingleput.	Area notified in previous years ..	136,566	213	..	..	136,566	213	Notification No. 223, dated 8th April 1910.
	Kovilpadugai extension No. II ..	..	..	9	..	9	..	
	Total ..	136,566	213	9	..	136,575	213	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	67	..	..	9	58	..	Transferred to reserved forests, notification No. 419, dated 28th July 1910.
	Perungoli extension No. I ..	..	..	6	..	6	..	
	Total ..	67	..	6	9	64	..	
				Reserved forests.				
Arcot, North.	Area notified in previous years ..	474,802	742	(*c*) 205,691 (*d*) 106,297 (*e*) 12,976	(*a*) 73 (*b*) 3,676	796,017	1,244	....

(*a*) Disafforested—Board's Proceedings, Forest No. 144, dated 31st May 1911. notification No. 260, dated 3rd May 1911.
(*b*) Disafforested—Board's Proceedings, Forest No. 159, dated 21st June 1911, notification No. 295, dated 20th May 1911.
(*c*) Area of the Tiruvannamalai range transferred from South Arcot.
(*d*) Area of the Tirupathur range transferred from North Salem.
(*e*) Area of the Palmaner range.

Area of reserved forests and reserved lands during 1910–1911—*cont.*

District.	Name of forest.	Area on 1st July 1910. Acres.	Area on 1st July 1910. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1911. Acres.	Area on 30th June 1911. Equivalent in square miles.	Number and date of notification of addition or transfer.
	CENTRAL CIRCLE—*cont.*							
	Reserved lands not transferred to reserved forests during the year.							
Arcot, North—*cont.*	Area notified in previous years ..	327	1	* 78	..	405	1	* Area transferred with Tirupattúr and Tiruvannámalai taluks.
	Panamadangi reserve survey No. 18 of Vandranthangal.	..	..	1	..	1	..	Notification No. 247, dated 5th May 1911.
	Tiruvallam plantation survey Nos. 249, 250 and 251 of Kemparajapuram.	..	..	7	..	7	..	Notification No. 184, dated 29th March 1911.
	Total ..	327	1	86	..	413	1	
	Reserved forests.							
Chittoor.	Area notified in previous years ..	350,025	547	(*a*) 199,051	‡ 4 (*b*) 12,976	536,096	838	‡ Disafforested notification No. 401, dated 30th June 1910.
	Bommasamudram C.	..	..	465	..	465	1	Notification No. 176, dated 15th March 1911.
	Total ..	350,025	547	199,516	12,980	536,561	839	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	1,315	2	..	465	850	1	Transferred to reserved forests, notification No. 400, dated 30th June 1910.
	Vovilthota addition	..	..	4	..	4		Notification No. 27, dated 26th December 1910.
	Basavireddipalle extension B ..	..	..	2	..	2		
	Total ..	1,315	2	6	465	856	1	
	Reserved forests.							
Arcot, South.	Area notified in previous years ..	426,274	666	§ 591	(*c*) 205,691 § 7	221,167	346	§ Due to correct computation of areas when final working-plan for Vriddachalam working circle was prepared.
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Salem, North.	Area notified in previous years ..	595,300	931	(*d*) 18,159	(*e*) 106,297	507,162	792	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	29,290	46	..	..	29,290	46	Notification No. 645, dated 28th November 1910.
	Bainurmalai extension	..	..	10	..	10	..	
	Total ..	29,290	46	10	..	29,300	46	
	Reserved forests.							
Salem South.	Area notified in previous years ..	429,046	670	‖ 353	‖ 5,678 (*f*) 18,159 (*g*) 33,795	371,767	581	‖ Rectification of areas owing to correct computation.
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	3,790	6	..	..	3,790	6	

(*a*) Area of the Vayalpad range transferred from the old South Cuddapah Division.
(*b*) Area of the Palmanêr range.
(*c*) Area of the Tiruvannámalai range transferred to North Arcot district.
(*d*) Area of Salem West Range transferred to the division.
(*e*) Area of Tiruppattúr range transferred to North Arcot.
(*f*) Area of Salem West Range transferred to North Salem.
(*g*) Area of Námakkal range transferred to Trichinopoly.

Area of reserved forests and reserved lands during 1910–1911—*cont.*

District.	Name of forest.	Area on 1st July 1910. Acres.	Area on 1st July 1910. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1911. Acres.	Area on 30th June 1911. Equivalent in square miles.	Number and date of notification of addition or transfer.
	CENTRAL CIRCLE—*cont.*							
	Reserved forests.							
Trichinopoly.	Area notified in previous years ..	191,611	299	(*a*) 1,901 (*b*) 470 (*j*) 33,795	(*c*) 63	227,714	356	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	3,644	6	..	(*d*) 470 (*e*) 670	2,504	4	
	Total ..	3,644	6	..	1,140	2,504	4	
Guntúr.	***Reserved forests.***							
	Area notified in previous years ..	521,239	814	..	..	521,239	814	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	8	..	..	..	8	..	
	SOUTHERN CIRCLE.							
	Reserved forests.							
South Canara.	SHANKRANARAIN.							
	Bakudibola extension	..	..	3	..	3	..	No. 498, dated 1st September 1910.
	PUTTUR.							
	Kilarmale extension No. VIII ..	..	..	3 ( )	..	4	..	No. 404, dated 18th July 1910, and No. 18, dated 22nd December 1910.
	KASARAGOD.							
	Parappa addition No. I	..	..	79	..	79	..	No. 616, dated 14th November 1910.
	Bantaje	..	..	2,345	..	2,345	..	No. 214, dated 22nd March 1910.
	Area notified in previous years ..	558,083	..	..	(*f*) 51,837	506,246	..	
	Total ..	558,083	872	2,431	51,837	508,677	795	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	72,873	114	..	(*h*) 109 (*g*) 2,430 (*f*) 24	70,310	110	
	Reserved forests.							
Malabar, North.	Area notified in previous years ..	166,892	261	..	..	166,892	261	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	504	1	..	(*i*) 9	495	1	

(*a*) Area of Karúr reserves transferred from Southern Circle.
(*b*) Notification No. 356, dated 11th June 1910.
(*c*) Padugai reserves transferred to Public Works Department.
(*d*) Transferred to reserved forests.
(*e*) Included at settlement. G.O. No. 1968, dated 11th June 1910.
(*f*) Rectification of area due to adoption of Survey of India figures.
(*g*) Transferred to reserved forests.
(*h*) Excluded at Settlement.
(*i*) Correction of area by recomputation.
(*j*) Area of portion of Námakkal range of South Salem Division transferred to this district.

Area of reserved forests and reserved lands during 1910–1911—*cont.*

District.	Name of forest.	Area on 1st July 1910. Acres.	Area on 1st July 1910. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1911. Acres.	Area on 30th June 1911. Equivalent in square miles.	Number and date of notification of addition or transfer.
				SOUTHERN CIRCLE—*cont.*				
				Reserved forests.				
Malabar, South.	Area notified in previous years ..	104,111	163	..	(a) 34,848	69,263	108	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	40,926	64	..	(a) 5,703	35,223	55	
				Reserved forests.				
Nilgiris, The.	SEGUR.							
	Bokkapuram Reserve Addition No. I	..	..	5	..	5	..	No. 499, dated 5th September 1910.
	Bokkapuram Reserve Addition No. II	..	..	4	..	4	..	
	Bokkapuram Reserve Addition No. III	..	..	4	..	4	..	
	Area notified in previous years ..	308,682	..	..	(a) 2,534	306,148	..	
	Total ..	308,682	482	13	2,534	306,161	478	
				Reserved lands not transferred to reserved forests during the year.				
	SEGUR.							
	Snowdon Reserve Addition ..	..	..	31	..	31	..	No. 95, dated 7th February 1911.
	Area notified in previous years ..	54,882	..	..	(b) 13 (c) 2,352	52,517	..	
	Total ..	54,882	86	31	2,365	52,548	82	
				Reserved forests.				
Kollegal.	Area notified in previous years ..	286,358	447	..	(d) 165	286,193	447	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	165,063	258	..	..	165,063	258	
				Reserved forests.				
Coimbatore, North.	BHAVANI.							
	Ennamangalam	..	..	5,916	..	5,916	..	No. 580, dated 8th November 1910.
	Area notified in previous years ..	577,832	..	(d) 5,627	..	583,459	..	
	Total ..	577,832	903	11,543	..	589,375	921	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years ..	10,511	16	..	(b) 5,916 (e) 4,324	271	..	
				Reserved forests.				
Coimbatore, Central.	ERODE.							
	Chennimalai Reserve Addition ..	..	..	13	..	13	..	No. 634, dated 24th November 1910.
	Area notified in previous years ..	196,657	..	..	(a) 70	196,587	..	
	Total ..	196,657	307	13	70	196,600	307	

(a) Rectification of area due to adoption of Survey of India figures.
(b) Transferred to reserved forests.
(c) Deducted having been shown in previous years' returns by mistake.
(d) Correction of area by recomputation.
(e) Excluded at Settlement.

Area of reserved forests and reserved lands during 1910-1911—*cont.*

District.	Name of forest.	Area on 1st July 1910.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1911.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
				SOUTHERN CIRCLE—*cont.*				
				Reserved lands not transferred to reserved forests during the year.				
Coimbatore, Central—*cont.*	Survey No. 469-B. of Vadamugam Vellodu in Vellodu tope reserve.	..	..	4	..	4	..	No. 15, dated 24th December 1910.
	METTUPALAIYAM.							
	Modur-Pethikuttai Addition ..	..	..	120	..	120	..	No. 657, dated 5th December 1910.
	Area notified in previous years ..	30,343	..	..	(*a*) 13	30,330	..	
	Total ..	30,343	47	124	13	30,454	48	
				Reserved forests.				
Coimbatore, South.	Area notified in previous years ..	292,515	457	(*b*) 14	(*c*) 1,901	290,628	454	No. 474, dated 10th September 1910.
				Reserved lands not transferred to reserved forests during the year—Nil.				
				Reserved forests.				
Madura.	Area notified in previous years ..	426,503	666	..	(*d*) 375	426,128	666	
				Reserved lands not transferred to reserved forests during the year.				
	KODAIKANAL.							
	Survey No. 1704-B. of Pannakad in Perumalmalai reserved forest.	..	..	1	..	1	..	No. 26, dated 24th December 1910.
				Reserved forests.				
Rámnád.	SRÍVILLIPUTTÚR.							
	Sappani Parambu extension ..	..	..	6	..	6	..	No. 135, dated 2nd March 1911.
	Area notified in previous years..	46,515	..	..	(*d*) 37	46,478	..	
	Total ..	46,515	73	6	37	46,484	73	
				Reserved lands not transferred to reserved forests during the year.				
	SRÍVILLIPUTTÚR.							
	Additions to Srívilliputtúr ghât forests V (*a*) in Puduppatti village.	..	..	49	..	49	..	No. 399, dated 8th July 1910.
	Additions to Srívilliputtúr ghât forests V (*a*) in Tirumalaperi village.	..	..	(*e*) ..	..	(*e*) ..	..	No. 563, dated 11th October 1910.
	Additions to Srívilliputtúr ghât forests V (*a*) in Alagapuri village.	..	..	(*e*) ..	..	(*e*) ..	..	No. 13, dated 14th December 1910.
	Additions to Srívilliputtúr ghât forests V (*a*) in Valaikulam village.	..	..	6	..	6	..	No. 198, dated 3rd April 1911.
	Additions to Srívilliputtúr ghât forests V (*a*) in Khansapuram village.	..	..	39	..	39	..	No. 237, dated 26th April 1911.
	Additions to Srívilliputtúr ghât forests V (*a*) in Lakshmipuram village.	..	..	36	..	36	..	No. 296, dated 7th June 1911.
	Area notified in previous years ..	150	..	..	(*a*) 6	144	..	
	Total ..	150	..	130	6	274	..	

(*a*) Transferred to reserved forests.
(*b*) Correction of area by recomputation.
(*c*) Transferred to Trichinopoly district.
(*d*) Rectification of area due to adoption of Survey of India figures.
(*e*) Less than one acre.

Area of reserved forests and reserved lands during 1910–1911—*cont.*

District.	Name of forest.	Area on 1st July 1910. Acres.	Area on 1st July 1910. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1911. Acres.	Area on 30th June 1911. Equivalent in square miles.	Number and date of notification of addition or transfer.
	SOUTHERN CIRCLE—*cont.*							
	Reserved forests.							
Tinnevelly.	KUTTALAM.							
	Naranapuram	..	..	390	..	390	..	No. 193, dated 29th March 1911.
	NANGUNERI.							
	Mayanparambu estate	..	..	109	..	109	..	No. 497, dated 5th September 1910.
	TINNEVELLY.							
	Miljavittan addition	..	..	8	..	8	..	No. 14, dated 10th January 1911.
	Vallanad addition	..	..	12	..	12	..	No. 16, dated 10th January 1911.
	Area notified in previous years ..	(*a*)233,386	..	..	(*b*) 4 (*c*) 7,082	226,300	..	Nos. 398, dated 15th July 1910 and 73, dated 18th January 1911.
	Total ..	233,386	364	519	7,086	226,819	354	
	Reserved lands not transferred to reserved forests during the year.							
	KUTTALAM.							
	Additions (1) and (2) to the Puliangudi, Chintamoni and Vasudevanallur reserved forests lower slopes IV(*a*) in Tirumalapuram village.	..	..	2	..	2	..	No. 144, dated 8th March 1911.
	Additions to Puliangudi, Chintamoni and Vasudevanallur reserved forests lower slopes IV (*a*) in Naranapuram village.	..	..	7	..	7	..	No. 201, dated 3rd April 1911.
	Additions to Puliangudi, Chintamoni land Vasudevanallur reserved forests lower slopes IV(*a*) in Melapuliangudi village.	..	..	9	..	9	..	No. 197, dated 3rd April 1911.
	Additions to Puliangudi, Chintamoni and Vasudevanallur reserved forests lower slopes IV(*a*) in Vasudevanallur village.	..	..	18	..	18	..	No. 258, dated 11th May 1911.
	Additions to Puliangudi, Chintamoni and Vasudevanallur reserved forest lower slopes IV(*a*) in Mela Chintamoni village.	..	..	6	..	6	..	No. 294, dated 1st June 1911.
	Addition to Chinnakadu hill block No. 34.	..	..	1	..	1	..	No. 541, dated 28th August 1910.
	AMBÁSAMUDRAM.							
	Enclosures to the Papanasam and Alwarkurichi reserved forest II and II(*b*).	..	..	189	..	189	..	No. 136, dated 2nd March 1911.
	Addition to Papanasam and Alwarkurichi reserved forest II(*b*) in Vikramasingapuram village.	..	..	2	..	2	..	No. 256, dated 18th May 1911.
	NÁNGUNÉRI.							
	Addition to Kalakad reserved forest I (*a*).	..	..	7	..	7	..	No. 453, dated 15th August 1910.
	TINNEVELLY.							
	Addition II to Kottamadaki reserved forest.	..	..	157	..	157	..	No. 551, dated 30th September 1910.
	Area notified in previous years ..	(*a*) 912	..	(*d*) 7	(*e*) 519	400	..	....
	Total ..	912	2	405	519	798	1	

(*a*) The last year's closing balance is entered separately for Rámnád and Tinnevelly.
(*b*) Disafforested.
(*c*) Rectification of area due to adoption of Survey of India figures.
(*d*) Correction of area by recomputation.
(*e*) Transferred to reserved forests.

ANNUAL

Forest Department,

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.			
Ganjám ..	598·53	....	....	..	..	..	..
Vizagapatam.	298·22	No. 62, dated 17th January 1911.	Somaralli	4·10	..	..	..
Gódávari, Upper.	427·73	....	....	..	..	..	..
Gódávari, Lower.	407·33	....	....	..	..	..	..
Kistna ..	278·49	....	....	..	..	..	..
Kurnool, East.	1,007·52	....	....	(*e*)—4·76	..	..	..
Kurnool, South.	774·39	....	....	..	..	..	..
Kurnool, West.	858·24	....	Paniem reserve	(*e*)— ·01	..	..	..
Bellary ..	624·14	G.O. No. 992, Revenue, dated 4th April 1911.	Moka plantation	(*g*) 1·72	..	..	..
Anantapur.	534·28	G.O. No. 751, Revenue, dated 15th March 1911.	Kuderu extension	0·93	..	..	..
		....	25 Reserves in Kadiri taluk ..	(*h*)217·30	..	..	..
Total ..	5,808·87			219·28	..	..	..
							Central
Chingleput.	213·40	....	....	..	..	..	..
North Arcot.	1,243·77	....	....	..	..	..	..
Chittoor ..	838·37	G.O. No. 752, dated 15th March 1911.	Bommasamudram C ..	·72	..	..	..
North Salem.	792	....	....	..	..	..	..
South Salem.	581	....	....	..	..	..	..
Trichinopoly.	355·84	G.O. No. 1968, dated 11th June 1910.	Mogavanur	·73	..	..	..
Tanjore ..							
Guntúr ..	814·43	....	....	..	..	..	..
			Total ..	1·45	..	..	..

(*a*) Of this 5 square miles relate to Sollundi, Nagiri, Chamunda and Budurangu notified
(*b*) Sal area
(*c*) Area of Nugur
(*d*) North Velegondas addition No. II notified
(*e*) *Vide* remark against this district
(*f*) As per correct calculation
(*g*) Correction made during settlement—*vide* footnote to area statement
(*h*) Transferred from Central Circle as per

NOTE. (CENTRAL CIRCLE)—No block is under

* The Vengur padugai and Vengur (Togur) merged in

FORM No. 66.

Madras Presidency.

incurred on, Forest Settlements during 1910–1911.

Areas undergoing settlement.				Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.				
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.		SQ. MLS.
Pudringi enclosure	0·11	....	....	..	..	(*a*) 75
....	..	Sarugudu No. VI	10·16	..	..	(*b*) ·14
....	..	....	..	..	..	(*c*) 540
Coringa extension . ..	75	....	..	..	..	..
....	..	....	..	..	..	..
....	..	...	..	..	..	..
....	..	....	..	..	..	(*d*) 0·01
....	..	....	..	..	..	..
Sandal area near Chilkanhatti.	(*f*) 1·20	....	..	..	..	..
Ramagiri additions I and II ..	0·12	Bhadrapur extension.. ..	·56	..	..	..
Yerrakonda extension No. II...	9·80	Agrabaram additions I and II.	0·21	..	..	..
Vengalammacheruvu extension.	0·09	} Cherlopalle addition I ..	0·08	..	..	..
Budikonda extension No. I ..	0·58					
	86·90		11·01	..	..	615·15
Circle.						
Sengundrum extension No. II.	0·09	Perungole extension No. I ..	0·01	..	..	....
		Survey No. 18 Vandranthangal village of Panamadangi reserve.	ACS. 1·32			
....	..	Survey Nos. 249, 250 and 251 of Kempurazapuram village, Tiruvallam Plantation.	6·73	..	..	....
			8·05 or ·01 sq. mls.			
Airala extension	1·32	Vovilthota	·006	..	..	...
		Basavireddipalle	·003			
Hudaidurgam	46·	Bainurmalai extension.. ..	·015	..	..	
Aruna	3·	....	..	18	..	....
Tirtagiri	3·	....	..	..	..	9·33
* Vengur padugai and Togur.	1·	....	..	..	..	....
Palamalai extension	1·39	....	..	..	..	....
V. Kanapadi extension ..	1·00	....	..	..	..	....
Gokanakonda extension No. I.	8 acres	....	..	..	..	....
	56·80 & 8 acres		·044	18	..	9·33

under section 4 after the close of the year and the balance 70 square miles to Chokkapad forests.
near Donabai.
taluk newly added.
under section 4 after the close of the year.
in the enclosure to Form No. 65.
the area in acres being 767.
printed in Board's Proceedings, Forest No. 110, dated 21st April 1911.
notification No. 381, dated 16th July 1910.
settlement in other districts.
one since Trichinopoly and Tanjore were formed into one forest division.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area in square miles.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.	RS.	RS.	
South Canara.	872 (*a*)—81	G.O., No. 890, Rev., dated 22nd March 1910.	Bantaje	3·66	..	..	..
		G.O., No. 2891, Rev., dated 1st Sept. 1910.	Bakudihola extension	..	..	..	..
		....	....	..	..	..	..
		G.O., No. 3605, Rev., dated 24th Nov. 1910.	Parappa addition No. I ..	0·12	..	..	..
		G.O., No. 2381, Rev., dated 18th July 1910.	Kilarmale extension VIII ..	..	..	..	..
			Total ..	3·78	..	..	..
Malabar, North.	261	....	....	..	..	..	..
Malabar, South.	163 (*a*)—55	....	....	..	..	..	..
	482 (*a*)—4	G.O., No. 2932, Rev., dated 5th Sept. 1910.	Bokkapuram reserve addition No. I.	·008	74	..	..
The Nilgiris.	..	....	Bokkapuram reserve addition No. II.	·006	..	..	..
	..	....	Bokkapuram reserve addition No. III.	·006	..	..	..
			Total ..	·02	74	..	..
Kollegal ..	447	....	....	..	..	..	..
Coimbatore, North.	903 (*c*) +9	3246, Revenue, dated 6th Oct. 1910.	Ennamangalam	16 (*b*)— 6·757	..	..	..
			Total ..	9·243	..	..	..
Coimbatore, Central.	307	3727, Revenue, dated 24th Nov. 1910.	Chennimalai reserve addition.	·02	..	..	..
			Total ..	·02	..	..	..
Coimbatore, South.	457 (*d*)—3	....	....	..	..	..	..
Madura ..	666	....	....	..	..	..	..
Rámnád ..	73	562, Revenue, dated 2nd March 1911.	Sappani Parambu extension ..	·009	6	10	..

NOTE.—No blocks are under settlement or
(*a*) Rectification due to adoption
(*b*) Excluded
(*c*) Correction of area
(*d*) Transferred to

incurred on, Forest Settlements during 1910–1911—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area in square miles.	Name of tract.	Area in square miles.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.		SQ. MLS.
Balpa extension	2	....	..	273	..	108
....	..	....	..	..	..	..
....	..	....	..	..	..	..
....	..	....	..	..	..	..
....	..	....	..	..	..	..
Total ..	2	Total ..	..	273	..	108
Ladysmith addition	·75 (*b*)—·01	....	..	..	..	..
Total ..	·74	....	..	..	..	..
The Silent valley	45 (*a*)—10	....	..	..	..	..
		Snowdon reserve addition ..	·05	..	..	..
		Total ..	·05	..	..	..
Madeswaranmalai and its extension.	246	....	..	..	..	..
Mambetta	12	..	..	..	..	..
Andipalayam Field No. 299 (portion in Doddasampagai reserve).	..	....	..	..	..	..
Total ..	258	Total ..	..	..	..	..
Gutialattur extension	·387	....	..	..	..	..
Palamalai additions	·03	....	..	..	..	..
Talamalai additions	·006	..	..	..	..	..
Total ..	·423	Total ..	..	..	..	..
Attapadi block No. V .. Do. No. VI ..	47	Survey No. 469 B. of Vadamugam Vellodu in Vellodu tope reserve.	·006	..	..	..
....	..	Modur Pethikuttai addition..	·19	..	..	..
Total ..	47	Total ..	·196	..	..	..
....	..	....	..	..	..	..
....	..	Survey No. 1704-B of Pannakad in Perumalmalai reserve.	..	..	..	..
Survey No. 1861 of Valaikulam and 2359 of Kollankondan in Srivilliputtúr ghat reserve.	·043	Additions to Srivilliputtúr ghat forests V-*a* in Pudupatti village.	·077	..	..	..
Srivilliputtúr ghat forests V-*a* additions 1 to 4.	·054	Additions to Srivilliputtúr ghat forests V-*a* in Tirumalaperi village.	..	..	..	..
Valaikulamparambu extension.	·054					

pending settlement in South Coimbatore.
of Survey of India figures.
at settlement
by recomputation
Trichinopoly district.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.	RS.	RS.	
Rámnád—*cont.*	..	....	..	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
			Total ..	·009	6	10	..
Tinnevelly	364(*a*)–11	G.O., No. 914, Rev., dated 29th Mar. 1911.	Naranapuram block	·609	..	..	..
	..	G.O., No. 2933, Rev., dated 5th Sept. 1910.	Mayanparambu estate block ..	·170	..	..	..
	..	G.O., No. 67, Rev., dated 9th Jan. 1911.	Milavittan addition	·911 (*b*)+·001	..	..	..
	..	G.O., No. 4141, Rev., dated 24th Dec. 1910.	Vallanad addition	·019	..	..	..
	..	....	..	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
			Total ..	·810	..	..	..
Grand Total, Southern Circle ..	4,850			13·88	80	10	..

(*a*) Rectification due to adoption of Survey of India figures.
(*b*) Added at settlement.

incurred on, Forest Settlements during 1910-1911—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.		SQ. MLS.
Srívilliputtúr ghât forests V-*a*, additions 5, 6 and 7.	·020	Additions to Srívilliputtúr ghât forests V-*a* in Alagapuri village.	..	..	..	..
Srívilliputtúr ghât forests V-*a* extension.						
....	·054	Additions to Srívilliputtúr ghât forests V-*a* in Valaikulam.	·009	..	..	..
....	..	Additions to Srívilliputtúr ghât forests V-*a* in Khansapuram village.	·060	..	..	..
....	..	Additions to Srívilliputtúr ghât forests V-*a* in Lakshmipuram village.	·056	..	..	..
	·225		·202	..	..	..
Survey No. 365 of Marandai village, Kottamalai extension.	·030	Additions (1) and (2) to the Puliangudi, Chintamani and Vasudevanallur reserved forest lower slopes IV-*a* in Tirumalapuram village.	·003	2,406	..	..
Kottamalai addition in three bits.	·190	Additions (1) and (2) to the Puliangudi, Chintamani and Vasudevanallur reserved forest lower slopes IV-*a* in Naranapuram village.	·011	..	..	..
Panjanthangi estate	·113	Additions (1) and (2) to the Puliangudi, Chintamani and Vasudevanallur reserved forest lower slopes IV-*a* in Melapuliangudi village.	·014	..	..	..
Kaloli enclosure in Terku Viravanallur block.	·014	Additions (1) and (2) to the Puliangudi, Chintamani and Vasudevanallur reserved forest lower slopes IV-*a* in Vasudevanallur village.	·029	..	..	..
Vadagarai Melpidagai block III (*b*), extensions A, B & C.	·110	Additions (1) and (2) to the Puliangudi, Chintamani and Vasudevanallur reserved forest lower slopes IV-*a* in Melachintamani village.	·010	..	..	..
Additions to the reserved forest III (*c*) (2), Kadayanallur.	·052	Additions to Chinnakadu hill block No. 34.	·001	..	..	..
....	..	Enclosures to the Pápanasam and Alwarkurichi reserved forests II and II-*b*.	·296	..	..	..
....	..	Addition to enclosures to the Pápanasam and Alwarkurichi reserved forests II-*b* in Vikramasingapuram village.	·003	..	..	..
....	..	Addition to Kalakad reserved forest I-*a* in Malayadiputtur.	·010	..	..	..
....	..	Addition II to Kottamadaki reserved forest.	·245	..	..	..
Total ..	·509	Total ..	·622	2,406	..	..
	343·89		1·07	2,679	..	108

Annual Form No. 67.

Forest Department, Madras Presidency.

Record of Demarcation and Maintenance of Boundaries for 1910–1911.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.	
								On new work.	On repairs.
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	Rs.	Rs.
Ganjám	83	(a) 850	363	1,296	...	80	1,376	2,774	(f) 780; (e) −6
Vizagapatam	3	(a) 495	...	498	...	...	498	179	79
Gódávari, Upper	...	(a) 423	..	423	...	143	566	...	2,478; (c) (e)+2,701
Do. Lower	...	594	214	808	7	72	887	..	665; (e)+1
Kistna	(d) 40	(d) 4; (d) 9; (a) 487	70	610	5	41	656	448	156
Kurnool, East	(h) 7	(g) 387	(g) 333	727	...	54	781	265	199
Do. South	..	(g) 325	(g) 204	529	...	21	550	...	131; (e) +19
Do. West	13	(g) 759	(g) 262	1,034	44	101	1,179	821	71; (e) + 6
Bellary	...	160	1,628	1,788	...	...	1,788	...	828
Anantapur	17	109	1,689	(b) 1,815	2	...	1,817	143	1,031; (e) −1
Total	163	(a) 2,255; 2,347	4,763	9,528	58	512	10,098	4,630	6,413; (e)+ 2,720
Central Circle.									
Cuddapah, North	24	30; (a) 714	634	1,402	...	29	1,431	151	(l) 283
Do. East	54	66; (a) 663	128	911	...	46	957	224	461
Nellore	...	19; (d) 2,060	...	2,079	...	84	2,163	...	(m) (e)648; −29
Chingleput	...	90; (a) 417	417	924	...	...	924	...	(n) 2,165
Arcot, North	(k) 65	(i)(a)2,173	4	2,242	...	29	2,271	124	506; (e)− 298
Chittoor	5	(i)(a)1,725	...	1,730	...	18	1,748	39	(e) + 26
Arcot, South	...	(i)(a)1,172	618	1,790	...	...	1,790	...	353; (e) + 390
Salem, North	18	(i)(a)1,268	31	1,317	12	40	1,369	135	36; (e) + 272
Do. South	...	(i) 333; (a)671	139	1,143	...	5	1,148	...	485; (e)− 222
Trichinopoly	...	491; (a) 426	67	984	17	24	1,025	106	525
Guntúr	...	3	1,389	1,392	...	...	1,392	...	37
Total	166	1,032; (a)11,289	3,427	15,914	29	275	16,218	779	5,643
Southern Circle.									
Canara, South	76	42; (a) 3,091	439	3,648	102	124	3,874	2,270	102
Malabar, North	27	(a) 241	848	1,116	72	36	1,224	2,298	...
Do South (o)	8	62	35	1:5	6	55	166	658	...
The Nilgiris	...	...	1,614	1,614	...	299	1,913	...	190
Kollegal	2	3; (a) 60	300	365	7	67	439	267	278; (q) 20
Coimbatore, North	...	11; (o)(a)541	...	(o) 552	19	110	681	...	249; (r) 36
Do. Central (o)	5	12; (a) 435	122	574	...	43	617	1	170; (q) 263
Do. South	...	..	(p) 214	(p) 214	...	52	266	...	(q) 104
Madura	90	29; (a) 766	156	1,041	513	178	1,732	5,008	385; (q) 426; (s) −2; (e) +55
Ramnad	...	...	100	100	...	...	100	...	8
Tinnevelly	12	9	350	371	3	14	388	253	89; (q) 92; (t) −200; (e) − 3
Total	220	168; (a)5,134	4,178	9,700	722	978	11,400	10,845	2,262
Grand total, Presidency	549	3,547; (a)18,678	12,368	35,142	809	1,765	37,716	16,254	17,038

(a) Cleared by Forest subordinates free of cost.
(b) The difference between the total of columns 3 and 4 of the current year and column 5 of last year is due to the addition of 419 miles of Kadiri Range during the year.
(c) Of this Rs. 2,701 relates to Upper Gódávari for which the District Forest Officer is not able to explain.
(d) Coupe and compartment lines.
(e) Added or deducted to correspond Accountant-General's audited figures.
(f) This is expenditure on preliminary demarcation.
(g) The total of these figures is less than those in column 5 of Kurnool, East and West in last year's return by 243. The District Forest Officer, Kurnool, South, reports his inability to reconcile his figures during the current year.
(h) This represents Range and not Reserve boundary.
(i) Difference between total of columns 3 and 4 of this year and column 5 of the previous year was due to territorial changes.
(k) Demarcation of Mangalam extension reserve cutting of bamboo block and coupe lines.
(l) 24 miles and 8 chains of coupe lines newly cut during the year.
(m) Represents costs of reclearing lines and repairing boundary marks.
(n) Includes Rs. 1,940, pay and famine batta of watchers and the balance represents cost of demarcation stones, cutting coupe and conservancy lines and rectification of boundary, etc.
(o) As per revised figures furnished by the Collector.
(p) Excludes thirteen miles transferred to Trichinopoly district and one mile made up of fractions.
(q) Cost of cutting and clearing coupe lines.
(r) Cost of demarcation of enclosures, etc.
(s) Cash recovery ordered.
(t) Cost of demarcation of the Kattalamalai estate recovered.

Annual Form No. 68.

Forest Department, Madras Presidency.

Statement of Forest Areas surveyed and under survey during the year 1910–1911.

District.	Areas surveyed and under survey during the year 1910–1911.															
	Special Surveys—Maps on 2-inch scale or over by Survey of India Department or Madras Survey.								Ordinary, included in topographical programme of the Survey of India or in District Surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.
	Previous.	Of year.	Previous.	Of year.					Previous.	Of year.	Previous.	Of year.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern Circle.	S. M.	S. M.	S. M.	S. M.	Rs.	S. M.	S. M.	Rs.	S. M.	S. M.	S. M.	S. M.	Rs.	S. M.	S. M.	Rs.
Direction	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjám	..	..	(*a*) 794	..	..	447	..	(*d*)11,081	..	..	..	..	..	..	..	..
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari, Upper	..	..	(*c*) 716	..	..	252	..	..	..	..	..	..	..	..	..	..
Do. Lower	..	..														
Kistna	..	..	88	..	..	27	..	..	..	..	..	..	..	..	..	..
Kurnool, East	..	..	2,725	..	..	937	..	..	..	..	..	..	..	..	..	..
Do. South	..	..														
Do. West	..	..														
Bellary	..	..	..	..	..	..	..	..	..	..	(*e*)690	..	..	..	..	..
Anantapur	..	..	(*b*) 215	..	..	..	..	..	..	..	188	..	..	..	..	..
Total	..	..	4,538	..	..	1,663	..	11,081	..	..	878	..	..	..	..	..
Central Circle.																
North Cuddapah	..	..	577	..	..	..	..	..	..	..	..	..	..	..	..	..
East do.	..	..	1,083	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot	..	..	1,244	..	..	..	..	..	..	..	..	..	..	..	..	..
Chittoor	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Arcot	..	..	217	..	8,829	82	..	..	..	..	441	..	..	..	..	..
North Salem	..	..	793	..	(*f*)24,366	..	..	..	..	..	..	..	..	..	..	..
South do.	..	..	541	..	..	..	..	..	..	..	..	..	..	40	..	..
Trichinopoly	..	..	66	..	25,000	124	..	246	..	..	..	..	..	280	..	..
Guntúr	..	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	67	4,561	..	58,195	206	..	246	..	..	441	..	..	320	..	..
						Reserved forests and reserved lands.										
Southern Circle.																
South Canara *	..	..	718	..	..	592 and 25 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Malabar, North	..	..	155	..	..	158 and 3 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Do. South *	..	1	108	..	..	130	..	..	..	..	2	..	..	..	..	..
			(*g*) 55													
The Nilgiris	..	..	502	..	..	..	..	..	..	..	..	..	..	..	..	..
Kollegal *	..	..	446	..	..	319	..	7,574	..	..	..	..	..	..	..	..
			(*g*) 246													
Coimbatore, North *	..	..	895	..	..	..	..	..	..	..	(*i*) 26	..	..	..	..	..
Do. Central *	..	..	291	..	..	7	..	..	..	..	*i*) 16	..	..	..	..	..
			(*g*) 48													
Do. South *	..	..	(*h*) 447	..	..	..	..	..	..	..	(*i*) 7	..	..	..	..	..
Madura	..	..	618	..	..	..	..	..	..	..	..	..	..	..	..	..
Rámnád *	..	..	71	..	..	..	..	..	..	..	(*i*) 2	..	..	..	..	..
Tinnevelly *	..	..	354	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	1	4,605	..	..	1,206	..	22,354	..	..	53	..	..	..	..	..
			(*g*) 349			and 28 linear miles.										
Grand Total, Presidency.		68	14,053	..	58,195	3,075 and 28 linear miles.	..	33,681		..	1,372	..	..	320	..	..

* Figures for column 4 have been redistributed adopting the area entered on the maps prepared by Survey of India.

(*a*) Furnished by the India Survey Party and includes enclosures inside reserves.

(*b*) Includes 47 square miles of Kadiri Range transferred from Central Circle.

(*c*) Correspondence is pending with India Survey Party regarding the accuracy of the figure.

(*d*) This amount is for Ganjám, Gódávari (Upper and Lower), Kistna and Kurnool (East, South and West) districts.

(*e*) Includes reserved lands and leased forests.

(*f*) Revised figure entered in the district return.

(*g*) Reserved lands.

(*h*) One hundred and thirty square miles resurveyed on 2-inch scale during 1909–1910.

(*i*) Areas for which maps have been prepared by the Madras Survey.

Statement of Forest Areas surveyed and under survey during the year 1910–1911—*cont.*

District.	Areas surveyed and under survey during the year 1910–1911—*cont.*								Areas remaining to be taken under survey.	Total forest area at end of year, as per Form No. 65.	Cost.		
	Chain and compass or other surveys by local officers.												
	With interior details.					Boundary surveys.							
	4-inch or over.		Under 4-inch.										
	Previous.	Of year.	Previous.	Of year.	Total cost.	Previous.	Of year.	Total cost.			Previous.	Of year.	Entire cost of all surveys to end of the year.
	18	19	20	21	22	23	24	25	26	27	28	29	30
Northern Circle.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	RS.	RS.
Direction	..	..	..	..	..	..	..	..	..	..	872	446	1,318
Ganjám	53	..	..	..	..	1,485	135	72	..	599	18,419	(*b*) 1,347	19,766
Vizagapatam	298	..	..	..	..	..	..	..	14	312	2,207	..	2,207
Gódávari, Upper ..	..	..	..	..	..	..	20 villages.	..	(*a*)..	968	3,702	(*g*) 2,936	6,638
Do. Lower ..	1	..	26	..	6	540	..	796	376	482	11,723	(*b*) 360	12,083
Kistna	16	..	..	..	5	374	..	203	193	297	4,667	(*b*) 882	5,549
Kurnool, East ..						92*	..	..		1,003		494	
Do. South ..	51	..	..	..	215	143	..	..	143	774	8,094	1,338	10,990
Do. West ..						4	1	97	260	858		(*d*) — 1	
												(*b*) 1,065	
Bellary	..	..	..	..	..		..	..	..	690	4,808	(*b*) 769	5,577
Anantapur	173	..	..	..	..	26	14	1,775	77	830	3,859	759	4,616
												(*d*) — 2	
Total ..	(*n*) 592	..	26	..	226	2,664	150 and 20 villages.	2,943	1,063	6,813	58,351	10,393	68,744
Central Circle													
North Cuddapah	..	..	..	..	..	..	..	..	158	735	(*e*) 1,10,905	(*g*) +398	1,11,330
East do.	..	..	..	..	..	..	..	..	..	1,083			
Nellore	..	..	..	..	..	..	1	43	..	737	3,772	43	4,621
												(*g*) +806	
Chingleput	..	..	..	..	..	..	..	..	..	213	3,130	(*e*) 370	3,502
												(*g*) + 2	
North Arcot	..	..	..	..	..	..	..	..	..	1,245	19,762	372	20,141
												(*g*) + 7	
Chittoor	..	..	..	..	..	..	..	..	..	840	..	..	..
South Arcot	6	..	..	..	52	..	..	..	..	346	11,209	(*e*) 476	11,685
North Salem	..	..	..	..	..	..	..	..	..	838	28,417	(*g*) + 1,459	29,876
South do.	33	5	..	..	317	398	..	149	6	587	26,782	1,012	27,794
Trichinopoly	22	5	..	..	1,264	132	..	360	126	360	33,533	1,264	34,776
												(*g*) — 21	
Guntúr	..	..	..	..	..	..	..	..	..	814	(*f*) 15,506	(*c*) 375	15,881
Total ..	61	10	..	..	1,633	530	1	552	290	7,798	2,53,016	6,563	2,59,579
											(*h*) + 863	(*h*) +884	(*h*)+1,747
	Reserved forests and reserved lands.												
Southern Circle.													
South Canara *	..	..	..	..	..	906	..	..	73	795	57,976	366	58,342
										(*i*) 110			
Malabar, North	..	..	..	..	..	..	..	..	106	261	13,141	572	13,713
									1	(*i*) 1			
Do. South *	..	..	..	..	..	183	..	..	..	108	2,010	466	2,476
										(*i*) 55			
The Nilgiris	..	..	..	..	..	..	..	..	(*j*) 58	478	3,016	490	3,506
										(*i*) 82			
Kollegal *	..	..	..	..	..	..	..	..	1	447	96,028	456	97,332
									12	(*i*) 258			
Coimbatore, North * ..	..	..	..	..	..	..	..	..	..	921		848	
Do. Central * ..	..	..	..	..	..	..	..	..	..	307	11,140	571	12,351
										(*i*) 48			
Do. South * ..	..	..	..	..	..	..	..	..	..	454		640	
Madura	..	..	..	..	..	48	..	..	..	666	4,382	1,137	5,519
Rámnád *	..	..	..	..	..	..	..	..	..	73	3,121	..	3,451
Tinnevelly *	..	..	..	..	..	..	..	..	..	354		330	
										(*i*) 1			
Total ..	..	..	..	..	..	1,137	..	..	251	5,419	1,90,814	(*l*) 5,876	1,96,690
											(*k*) + 69		(*k*) +69
											(*m*)+12476		(*m*) +12,467
Grand Total Presidency ..	653	10	26	..	1,859	4,331	151	3,495	1,604	20,030	503,044 + (*k*) 69 +(*m*)12,476	23,716	5,26,769 (*k*) + 69 (*m*) +12,476

* Figures for column 4 have been redistributed adopting the area entered on the maps prepared by Survey of India.
(*a*) Information not furnished by the Collector.
(*b*) Includes establishment charges.
(*c*) Pay of draughtsmen.
(*d*) Adjusted as per Accountant-General's figures.
(*e*) Separate figures are not available and includes figures of Kadiri range transferred to Northern Circle.
(*f*) Revised figure entered in the district return.
(*g*) Added or deducted as per Accountant-General's figures.
(*h*) Direction charges.
(*i*) Reserved lands.
(*j*) Reserves of less than one square mile in extent.
(*k*) Charges included under direction in 1906–1907.
(*l*) Expenditure under A VIII (*c*) as per Accountant-General's audited figures.
(*m*) Survey of India charges in 1906–1907.
(*n*) Corrected in the Board's office.

ANNUAL FORM NO. 69.

Forest Department, Madras Presidency.

PROGRESS made in working-plans during 1910–1911.

District.	Areas for which working-plans have been completed and approved by the Board.		Areas for which working-plans are being compiled or have been compiled but not sanctioned.		Areas for which working-plans have still to be taken in hand.	Total forest area as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
Ganjam	451	..	..	..	148	599	..	
Vizagapatam ..	145	* ..	6	15	146	312	..	
Gódávari, Upper ..	..	..	225	..	743	968	..	
Do. Lower ..	240	..	55	..	187	482	394	
Kistna	58	..	93	65	81	297	..	
Kurnool, East ..	..	..	..	..	1,003	1,003	..	
Do. South ..	114	..	1	..	659	774	..	
Do. West .	427	..		..	431	858	..	
Bellary	147	112	105	..	326	690	..	These are the correct figures, those given last year being incorrect.
Anantapur ..	436	..	..	..	394	830	..	
Total ..	2,018	112	485	80	4,118	6,813	394	
Central Circle.								
Cuddapah, North ..	158	..	272	..	304	734	478	Pay of draftsman
Do. East ..	337	..	..	40	706	1,083	(*b*) + 42	
Nellore	114	..	587	..	36	737	(*b*) +225	
Chingleput ...	213	..	..	..	..	213	..	
Arcot, North ..	(*d*)1,244†	..	..	..	..	1,244	(*b*) + 18	
Chittoor	527	..	..	..	‡ 313	840	..	
Arcot, South ..	§ 132	..	165	16	33	346	143	
Salem, North ..	(*a*) 161	..	677	..	..	838	(*b*) + 35	
Do. South ..	(*e*) 453	..	..	..	134	(*e*) 587	..	
Trichinopoly ..	190	..	15	39	116	360	..	
Guntúr	41	..	..	..	773	814	..	
Total ..	3,570	..	1,716	95	(*h*) 2,415	7,796 (*e*) + 2	941	
				Reserved forests.				
Southern Circle.								
South Canara	662 (*f*)—73	..	..	2	204	795	..	
Malabar, North ..	178	..	..	7	76	261	..	
Do. South ..	7	..	..	..	97	104	..	
The Nilgiris	113 (*f*) —4 (*g*) —6	..	..	..	375	478	..	
Kollegal	43	..	..	..	404	447	..	
Coimbatore, North	289	..	..	..	632	921	..	
Do. Central	220	..	..	..	87	307	..	
Do. South	67	8	..	..	352	427	.	
Madura	356	..	..	..	310	666	..	
Rámnád	71	..	..	..	2	73	..	
Tinnevelly	169	..	5		180	354	..	
Total ..	2,092	8	5	9	2,719	4,833	..	

* Senivaram working-plan being under revision is not entered.

† Six square miles have been disafforested.

‡ Of this 311 sq. miles represent area of Vayalpad range transferred to the district.

§ Excludes 321 sq. miles of Tiruvannámalai range, transferred to North Arcot.

(*a*) Out of 299 sq. miles for which areas working plans were completed, 166 sq. miles were transferred to North Arcot and 28 sq. miles were added from South Salem.

(*b*) Added as per Accountant-General's audited figures.

(*e*) Area of unreserved lands, and padugais in Trichinopoly.

(*d*) Correct figure furnished by the Collector after the alterations made on account of bifurcation of districts.

(*e*) Difference due to correct computation of areas of certain reserves.

(*f*) Rectification of area due to adoption of Survey of India figures.

(*g*) Deducted as no regular working-plan exists for the bluegum plantations.

(*h*) Corrected in the Board's office.

Progress made in working-plans during 1910-1911—*cont.*

District.	Areas for which working-plans have been completed and approved by the Board		Areas for which working-plans are being compiled or have been compiled but not sanctioned		Areas for which working-plans have still to be taken in hand.	Total forest area as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
				Reserved lands.				
Southern Circle—cont.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
South Canara	..	..	..	..	110	110	..	
Malabar, North	..	..	..	..	1	1	..	
Do. South	..	..	..	..	35	35	..	
The Nilgiris	..	..	..	..	6	6	..	
Kollegal	10	..	..	..	248	258	..	
Coimbatore, North ..	..	..	..	..	(*a*)	(*a*)	..	
Do. Central ..	..	..	..	..	48	48	..	
Rámnád	..	..	..	..	(*a*)	(*a*)	..	
Tinnevelly	..	..	..	..	1	1	..	
Total ..	10	..	..	..	449	459	..	
				Leased forests.				
Malabar, South ..	23 (*b*) + 1	..	..	..	..	24	..	
The Nilgiris	76	..	..	..	..	76	..	
Coimbatore, South ..	..	..	..	..	27	27	..	
Total ..	100	..	..	..	27	127	..	
Total (Southern Circle) ..	2,202	8	5	9	3,195	5,419	(*d*) 297	
Grand total, Presidency.	7,790	120	2,206	184	9,728	20,028 + (*c*) 2	1,632	

(*a*) Less than one square mile.
(*b*) Rectification of area due to adoption of Survey of India figures.
(*c*) Area of unreserved lands and padugais in the Trichinopoly district.
(*d*) Amount spent under budget head A-VIII (*d*) in the Southern Circle as per Form No. 80.

ANNUAL FORM No. 70.

Forest Department, Madras Presidency.

COMMUNICATIONS and Buildings.

ANNUAL.

Forest Department,

COMMUNICATIONS.

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		RS.		MLS.	RS.	RS.
Direction ..	Houses for subordinate establishment	5,364	Cart-roads	..	2,939	..
			Ghât roads	..	12	..
			Dam	..	797	.
				..	3,748	..
			Add pay of establishment ..	..	1,355	..
	Total, Direction ..	5,364		..	5,103	10,467
Ganjám ..	Rest-houses	521	Cart-roads	12½	4,421	..
	Houses for subordinate establishment	3,162	Bridge	..	131	..
	Others	2,268		12½	4,552	10,963
			Add pay of establishment ..	..	460	..
	Total, Ganjám ..	5,951		12½	5,012	10,963
Vizagapatam.	Rest-houses	459	....	..	..	539
	Others	80				
	Total, Vizagapatam ..	539		..	..	539
Gódávari, Upper.	Rest-houses	2,639	Cart-roads	59½	976	4,818
	Houses for subordinate establishment	145	A-VII (*c*)	..	..	179
	Others	558				
	Total, Gódávari, Upper ..	3,342		59½	976	4,497
Gódávari, Lower.	Rest-houses	1,167	Cart-roads	2	1,100	2,920
	Houses for subordinate establishment	633	A-VII (*c*)	..	..	337
	Others	20				
	Total, Gódávari, Lower ..	1,820		2	1,100	3,257

FORM No. 70.

Madras Presidency.

and Buildings.

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS.	RS.	RS.
Rest-houses	94	....	..	..	156
Add as per Accountant-General's audited figure	62		..	..	..
	156		..	..	156
Rest-houses	1,734	Cart-roads	16¼	160	4,327
Houses for subordinate establishment	216	Ghât-roads	2	19	..
Others	643	Others	¼	5	..
	2,593		18½	184	4,327
Add pay of establishment	1,546	Add as per Accountant-General's audited figures	..	13	..
	4,139		18½	197	4,327
Deduct as per Accountant-General's audited figure	9	Add A-VII (*c*)	..	..	518
	4,130		18½	197	4,845
Rest-houses	495	Cart-roads	24¼	422	1,903
Houses for subordinate establishment	57	Bridle-paths	½	61	..
Others	302		26¾	483	1,903
	854	Deduct as per Accountant-General's audited figure	..	1	..
Add pay of establishment	567		26¾	482	1,903
		Add A-VII (*c*)	..	..	71
	1,421		26¾	482	1,974
Rest-houses	671	....	..	..	2,793
Houses for subordinate establishment	243	....	..	..	..
Others	404	Add A-VII (*c*)	..	..	121
	1,318				
Add pay of establishment	1,478				
	2,796				
Deduct as per Accountant-General's audited figure	3				
	2,793		..	..	2,914
Rest-houses	298	Cart-roads	60⅜	2,599	4,679
Houses for subordinate establishment	155		60⅜	2,599	4,679
Others	688				
	1,141				
Add pay of establishment	935	Add A-VII (*c*)	..	..	94
	2,076				
Add as per Accountant-General's audited figure	4				
	2,080		60⅜	2,599	4,773

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		RS.		MLS.	RS.	RS.
Kistna ..	Rest houses	249	Cart-roads	4¼	1,483	1,958
	Houses for subordinate establishment	202				
	Others	24				
	Total, Kistna ..	475		4¼	1,483	1,958
Kurnool, East.	Rest-houses	972	Others	..	42	2,229
	Houses for subordinate establishment	876		..	42	2,229
	Others	339	A-VII (*o*)	..	..	690
	Total, Kurnool, East ..	2,187		..	42	2,919
Kurnool, South.	Rest-houses	300	Cart-roads	18	3,828	12,355
	Houses for subordinate establishment	4,916				
	Others	3,311				
	Total, Kurnool, South ..	8,527		18	3,828	12,355
Kurnool, West.	Rest-houses	3,651	Cart-roads	15	345	9,494
	Houses for subordinate establishment	4,414	Add pay of establishment ..	..	337	..
	Others	308				
		8,373				
	Add pay of establishment ..	439				
	Total, Kurnool, West ..	8,812		15	682	9,494
Bellary ..	Rest-houses	5,323	Cart-roads	7⅞	49	7,024
	Houses for subordinate establishment	858	Bridle-paths	6⅝	377	..
	Others	417				
	Total, Bellary ..	6,598		14½	426	7,024
Anantapur ..	Rest-houses	3,699		..	..	6 579
	Others	1,887	A-VII (*o*)	..	..	1,699
		5,586				
	Add pay of establishment ..	993				
	Total, Anantapur ..	6,579		..	..	8,278

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		Mls.	Rs.	Rs.
Rest-houses	20	Cart-roads	15	349	1,164
Houses for subordinate establishment	167	Bridle-paths	1	50	..
Others	289		16	399	1,164
	476	A-VII (*c*)	..	..	845
Add pay of establishment	289				
	765		16	399	2,009
Rest-houses	727	Cart-roads	..	873	3,742
Others	18	Ghât-roads	..	1,983	..
	745	Others	..	20	..
Add pay of establishment	163		..	2,877	3,742
		Deduct as per Accountant-General's audited figure	..	43	..
			..	2,834	3,742
		Add A-VII (*c*)	..	..	72
	908		..	2,834	3,814
Rest-houses	1,453	Cart-roads	12	157	7,144
Others	1,096	Ghât-roads	5	3,893	..
	2,549		17	4,050	7,144
Add pay of establishment	545	Deduct as per Accountant-General's audited figure	..	21	..
	3,094		17	4,029	7,144
Add as per Accountant-General's audited figure	21	Add A-VII (*c*)	..	..	524
	3,115		17	4,029	7,668
Rest-houses	1,256	Cart-roads	27	1,127	2,537
Houses for subordinate establishment	23	Add A-VII (*c*)	..	..	407
Others	142				
	1,421				
Deduct as per Accountant-General's audited figure	11				
	1,410		27	1,127	2,944
Rest-houses	368	....	..	..	1,453
Houses for subordinate establishment	530	Add A-VII (*c*)	..	..	1,354
Others	42				
	940				
Add pay of establishment	622				
	1,562				
Deduct as per Accountant-General's audited figure	109				
	1,453		..	..	2,807
Rest-houses	445	Bridle-paths	2	301	1,029
Others	5	Add pay of establishment	..	278	..
			2	579	1,029
		Add A-VII (*c*)	..	..	344
	450		2	579	1,373

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		Rs.		Mls.	Rs.	Rs.
Total, Northern Circle.	Rest-houses	18,980	Cart-roads	125⅜	15,141	..
	Houses for subordinate establishment	20,570	Ghât-roads	..	12	..
	Others	9,212	Bridle-paths	6⅝	377	..
			Bridge	..	131	..
			Dam	..	797	..
			Others	..	42	..
		48,762		132	16,500	68,846
	Add pay of establishment ..	1,432	Add pay of establishment ..	..	2,152	..
			A-VII (*q*)	..	..	2,905
	Total ..	50,194		132	18,652	71,751
						Central
Cuddapah, North.	Rest-houses	275	Bridle-path	14⅞	1,095	3,450
	Houses for subordinate establishments	119	Cart-road	5¼	1,720	..
	Others	241	....	..	..	..
	Total, Cuddapah, North ..	635	Total ..	20⅛	2,815	3,450
Cuddapah, East.	Rest-houses	177	Bridle-path	5⅝	223	1,463
	Houses for subordinate establishments	1,046	....	..	..	..
	Others	17	....	..	..	..
	Total, Cuddapah, East ..	1,240	Total ..	5⅝	223	1,463
Nellore ..	Rest-houses	3,056	Cart-road	..	115	4,978
	Houses for subordinate establishments	1,142	Add as per Accountant-General's audit figure.	..	27	..
	Others	638	....	..	..	..
	Total, Nellore ..	4,836	Total ..	..	142	4,978
Chingleput ..	Rest-houses	976	Cart-road	..	40	1,016
	Total, Chingleput ..	976	Total ..	..	40	1,016
Arcot, North ..	Rest-houses	52	Cart-road	28	12,448	14,551
	Houses for subordinate establishments	2,041	Add as per Accountant-General's audited figure.	..	2	..
	Others	8	....	..	..	..
	Total, Arcot, North ..	2,101	Total ..	28	12,450	14,551

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		Mls.	Rs.	Rs.
Rest-houses	7,561	Cart-roads	154⅞	† 5,777	30,927
Houses for subordinate establishment	* 1,446	Ghat roads	7	5,896	..
Others	3,629	Bridle-paths	5½	412	..
		Others	¼	25	..
	12,636		167⅝	12,110	30,927
Add pay of establishment	6,145	Add pay of establishment	..	278	..
	18,781		167⅝	12,388	30,927
		Deduct as per Accountant-General's audited figure	..	52	..
Deduct as per Accountant-General's audited figure	45		167⅝	12,336	31,072
		Add A-VII (*c*)	..	..	4,212
		Add as per Accountant-General's audited figure	..	..	138
	18,736		167⅝	12,336	35,422
Circle.					
Rest-houses	40	Bridle-path	..	22	656
Houses for subordinate establishments	194	Cart-road	..	54	..
Others	51	Add A-VII (*c*) ..	..	..	370
Total ..	285	Total ..	..	* 76	1,026
Deduct cash recovery	10				
	275				
Cost of establishment	305				
	580				
Rest-houses	184	Bridle-path	7½	132	1,458
Houses for subordinate establishments	139	Cart-road	33⅜	676	..
Others	5	....	..	..	..
Cost of establishment	322	Add A-VII-(*c*) ..	..	..	85
Total ..	650	Total ..	40⅞	808	1,543
Rest-houses	44	....	..	..	1,484
Houses for subordinate establishments	593	....	..	..	..
Others	16	Add A-VII (*c*) ..	..	..	1,004
Cost of establishment	831	....	..	..	..
Total ..	1,484	Total ..	..	..	2,488
Rest-houses	42	Cart-road	5	251	948
Houses for subordinate establishments	96	Add A-VII (*c*) ..	..	..	4
Cost of establishment	559	....	..	..	..
Total ..	697	Total ..	5	251	952
Rest-houses	926	Bridle-path	2	203	4,288
Houses for subordinate establishments	481	Cart-road	21⅞	181	..
Others	14	Ghat-road	3½	857	..
Cost of establishment	+ 601	Add A-VII (*c*) ..	..	..	88
	+1,025				+ 914
Total ..	3,047	Total ..	27½	1,241	5,290

* Includes Rs. 55 spent under VII (*b*)—A Conservancy and Works in Parlakimedi Maliahs.
† Includes Rs. 90 spent under VII (*a*)—A Conservancy and Works in Parlakimedi Maliahs.

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		Rs.		Mls.	Rs.	Rs.
Chittoor ..	Rest-houses	497	Bridle-path	½	14	572
	Houses for subordinate establishments	25	Cart-road	3⅝	22	..
	Others	14	....	..	..	..
	Total, Chittoor ..	536	Total ..	4⅛	36	572
Arcot, South ..	Rest-houses	4,812	....	..	..	6,818
	Houses for subordinate establishments	1,919	....	..	..	..
	Others	87	....	..	..	..
	Total, Arcot, South ..	6,818	Total ..	..	..	6,818
Salem, North.	Rest-houses	1,664	Cart-road	..	7,770	10,191
	Houses for subordinate establishments	676	....	..	..	..
	Others	81	....	..	..	..
	Total, Salem, North ..	2,421	Total ..	..	7,770	10,191
Salem, South.	Rest-houses	320	Cart-road	..	116	1,016
	Houses for subordinate establishments	580	....	..	..	..
	Total, Salem, South ..	900	Total ..	..	116	1,016
Trichinopoly ..	Rest-houses	1,717	Cart-road	1⅜	331	2,048
	Total, Trichinopoly ..	1,717	Total ..	1⅜	331	2,048
Guntúr ..	Rest-houses	52	....	..	..	408
	Houses for subordinate establishments	162	....	..	..	..
	Others	194	....	..	..	..
	Total, Guntúr ..	408	Total ..	..	..	408
Total, Central Circle.	Rest-houses	13,598	Bridle-path	21	1,332	..
	Houses for subordinate establishments	7,710	Cart-road	38¼	22,567	46,511
	Others	1,277	....	..	..	..
	Add as per Accountant-General's audited figures	3	Add as per Accountant-General's audited figures	..	24	..
	Total, Central Circle ..	22,588	Total ..	59¼	23,923	46,511

Note (Central Circle).—The difference in the total expenditure between this and the audited figures of the Accountant-

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
Rest-houses	550	Bridle-path	18½	127	1,598
Houses for subordinate establishments	445	Ghat-road	33¾	476	..
....	..	....	..	..	..
		Add A-VII (*c*) ..	..	..	176
Total ..	995	Total ..	52¼	603	1,774
Rest-houses	72	....	..	..	749
Houses for subordinate establishments	262	Add A-VII (*c*) ..	..	..	402
Cost of establishment	415	....	..	..	..
Total ..	749	Total ..	..	..	1,151
Rest-houses	454	Cart-road	..	394	1,148
Houses for subordinate establishments	154	....	..	..	..
Others	104	....	..	..	..
Cost of establishments	42	....	..	..	..
Total ..	754	Total ..	..	394	1,148
Rest-houses	259	Cart-road	..	87	1,084
Houses for subordinate establishments	110	....	..	..	..
Others	4	....	..	..	..
Cost of establishments	622	Add A-VII (*c*) ..	..	..	312
	995	..	..	..	— 11
Deduct cash recovery	9	....	..	..	..
	986	....	..	..	..
	+ 11	....	..	..	..
Total ..	997	Total ..	..	87	1,385
Rest-houses	536	Bridle-path	36	855	3,050
Houses for subordinate establishments	34	Cart-road	17	551	..
Others	39	....	..	..	..
Cost of establishment	525	Add A-VII (*c*) ..	..	..	87
	+ 510	....	..	..	..
Total ..	1,644	Total ..	53	1,406	3,137
Rest-houses	1,123	....	..	..	945
Houses for subordinate establishments	50	....	..	..	..
Others	40	Add A-VII (*c*) ..	..	..	216
Cost of establishment	799	....	..	..	..
	2,012	....	..	..	..
	—1,067	....	..	..	..
Total ..	945	Total ..	..	..	1,161
Rest-houses	4,230	Bridle-path	64	1,339	17,419
Houses for subordinate establishments	2,558	Cart-road	77½	2,194	..
Others	273	Ghat-road	37½	1,333	..
Cost of establishments	5,021	Add direction charges ..	..	1	..
Add direction charges	10	....	..	..	..
	12,092	Add A-VII (*c*) ..	..	..	3,647
Add as per Accountant-General's audited figures	479	....	..	..	..
	12,571	....	..	..	..
Deduct cash recovery	19	....	..	..	..
Total ..	12,552	Total ..	178½	4,867	21,066

General in the case of North Arcot, Chittoor, South Arcot, and North Salem is due to territorial changes.

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		Rs.		Mls.	Rs.	Rs.
South Canara..	(a) Head-quarter houses ..	702	(a) Cart-roads	13	774	..
	(d) Others	6				
	Total ..	708	Total ..	13	774	1,482
Malabar, North.	(b) Rest-houses	89	(a) Cart-roads	1	50	..
	(c) Houses for subordinate establishments	3	(d) Bridges	..	3	..
	(d) Others	428				
	Total ..	520	Total ..	1	53	573
Malabar, South.	(a) Head-quarter houses ..	49	(b) Bridle-paths	25	269	..
	(b) Rest-houses	575				
	(c) Houses for subordinate establishments	1,222				
	(d) Others	237				
	Total ..	2,083	Total ..	25	269	2,352
The Nilgiris.	(c) Houses for subordinate establishments	1,063	(a) Cart-roads	1	548	..
	(d) Others	3,003	(b) Bridle-paths	5	274	..
	Total ..	4,066	Total ..	6	822	4,888
Ko legal ..	(b) Rest-houses	6,073	(a) Cart-roads	7	2,579	..
	(c) Houses for subordinate establishments	1,216				
	(d) Others	100				
	Total ..	7,389	Total ..	7	2,579	9,968
Coimbatore, North.	(a) Head-quarter houses ..	364	(a) Cart-roads	22	186	..
	(b) Rest-houses	3,132				
	(c) Houses for subordinate establishments	3,273				
	(d) Others	941				
	Total ..	7,710	Total ..	22	186	7,896
Coimbatore, Central.	(a) Head-quarter houses ..	355	....	..	..	..
	(b) Rest-houses	40				
	(d) Others	116				
	Total ..	511	Total ..	..	..	511

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		Mls.	Rs.	Rs.
(*a*) Head-quarter houses	119	(*a*) Cart-roads	37	606	1,779
(*b*) Rest-houses	431				
(*c*) Houses for subordinate establishments	119				
(*d*) Others	172				
Add pay of watchers	334				
	1,175				
Deduct cash recovery of service payments	—2	Add A-VII (*c*) ..	..	..	575
Total ..	1,173	Total ..	37	606	2,354
(*a*) Head-quarter houses	865	(*a*) Cart-roads	79	2,231	4,963
(*b*) Rest-houses	358	(*c*) Ghat-roads	1	40	
(*c*) Houses for subordinate establishments	56			2,271	
(*d*) Others	1,251				
Add pay of watchers	171				
	2,701	Add as per Accountant-General's audited figures	..	1	..
Deduct as per Accountant-General's audited figures.	10	Add A-VII (*c*) ..	..	..	1,382
Total ..	2,691	Total ..	80	2,272	6,345
(*a*) Head-quarter houses	206	(*a*) Cart-roads	17	546	1,568
(*b*) Rest-houses	171	(*b*) Bridle-paths	53	287	
(*c*) Houses for subordinate establishments	252	(*d*) Bridges	..	7	
Add pay of watchers	99	Add A-VII (*c*) ..	..	..	818
Total ..	728	Total ..	70	840	2,386
(*a*) Head-quarter houses	36	(*a*) Cart-roads	29	965	2,192
(*b*) Rest-houses	380	(*d*) Bridges	..	83	
(*c*) Houses for subordinate establishments	91	(*e*) Others	1	48	
(*d*) Others	589	Add A-VII (*c*) ..	..	..	172
Total ..	1,096	Total ..	30	1,096	2,364
(*b*) Rest-houses	165	(*a*) Cart-roads	35	3,198	3,920
(*c*) Houses for subordinate establishments.	30	(*d*) Bridges	..	149	
(*d*) Others	2				
Add pay of watchers	376	Add A-VII (*c*) ..	..	..	739
Total ..	573	Total ..	35	3,347	4,659
(*a*) Head-quarter houses	25	(*a*) Cart-roads	59	1,671	9,404
(*b*) Rest-houses	876	(*c*) Ghat-roads	51	5,829	
(*c*) Houses for subordinate establishments	92	(*d*) Bridges	..	245	
(*d*) Others	142			7,745	
Add pay of watchers	567				
	1,702	Deduct cash recovery of service payments. ..	..	—17	
Deduct cash recovery of service payments	—26	Add A-VII (*c*) ..	..	..	329
Total ..	1,676	Total ..	110	7,728	9,733
(*a*) Head-quarter houses	45	(*a*) Cart-roads	6	686	1,640
(*b*) Rest-houses	336				
(*c*) Houses for subordinate establishments	242				
(*d*) Others	331	Add A-VII (*c*) ..			42
Total ..	954	Total ..	6	686	1,682

Communication

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		RS.		MLS.	RS.	RS.
Coimbatore, South.	(a) Head-quarter houses ..	367	(a) Cart-roads	18	3,362	..
	(b) Rest-houses	806				
	(c) Houses for subordinate establishments	1,515	(e) Others	1	228	..
	(d) Others	209				
	Total, Coimbatore, South ..	2,897	Total ..	19	3,590	6,487
Madura ..	(b) Rest-houses	485	(a) Cart-roads	..	50	..
	(c) Houses for subordinate establishments	2,005	(b) Bridle paths	10	1,806	..
	(d) Others	316	(d) Bridges	..	380	..
	Total, Madura ..	2,806	Total ..	10	2,236	5,042
Rámnád ..						
Tinnevelly ..	(c) Houses for subordinate establishments	2,810	(a) Cart-roads	6	1,046	..
	(d) Others	564	(b) Bridle-paths	5	193	..
			(c) Ghat-roads	3	1,454	..
	Total ..	3,374	Total ..	14	2,693	6,067
Direction ..	....	..	....	..	..	..
Total, Southern Circle.	(a) Head-quarter houses ..	1,837	(a) Cart-roads	68	8,595	
	(b) Rest-houses	11,200	(b) Bridle-paths	45	2,542	
	(c) Houses for subordinate establishments	13,107	(c) Ghat-roads	3	1,454	
	(d) Others	5,920	(d) Bridges	..	383	
			(e) Others	1	228	
	Total, Southern Circle ..	32,064	Total ..	117	13,202	45,266
Total, Presidency.	(a) Head-quarter houses ..	1,837	(a) Cart-roads	232	46,303	
	(b) Rest-houses	43,778	(b) Ghat-roads	3	1,466	
	(c) Houses for subordinate establishments	41,387	(c) Bridle-paths	72	4,251	
	(d) Others	16,409	(d) Bridges	..	514	
			(e) Dam	..	797	160623
			(f) Others	1	270	
		1,03,411		308	53,601	
	Add pay of temporary establishment	1,432	Add pay of temporary establishment	..	2,152	
	Add as per Accountant-General's audited figures ..	3	Variations as per Accountant-General's audited figures ..	..	24	
	Total ..	1,04,846	Total ..	308	55,777	1,60,623

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
(*a*) Head-quarter houses	7	(*a*) Cart-roads	10	1,386	4,772
(*b*) Rest-houses	452	(*c*) Ghat-roads	5	1,214	
(*c*) Houses for subordinate establishments	227	(*e*) Others	8	369	
(*d*) Others	389	Pay of temporary establishment	..	301	
Add pay of watchers	425	Add A-VII (*c*) ..	..	..	494
Total ..	1,500	Total ..	23	3,272	5,266
(*b*) Rest-houses	255	(*a*) Cart-roads	66	4,909	7,157
(*c*) Houses for subordinate establishments	328	(*b*) Bridle-paths	23	499	
Add pay of watchers	751	(*c*) Ghat-roads	8	400	
		(*e*) Others		52	
		Deduct cash recovery of service payments.	..	—37	
		Add A-VII (*c*) ..	..	..	248
Total ..	1,334	Total ..	97	5,823	7,405
(*b*) Rest-houses	236	(*a*) Cart-roads	2	144	2,840
(*c*) Houses for subordinate establishments.	61	(*b*) Bridle-paths	8	148	
(*b*) Rest-houses	327	(*a*) Cart-roads	49	1,361	
(*c*) Houses for subordinate establishments	51	(*b*) Bridle-paths	14	477	
(*d*) Others	16	(*d*) Bridges	..	21	
	*—3			* +1	
		Add A-VII (*c*) ..	..	..	20
Total ..	688	Total ..	73	2,152	2,860
(*d*) Others	5	....	..	..	5
(*a*) Head-quarter houses	1,303	(*a*) Cart-roads	389	17,705	40,240
(*b*) Rest-houses	3,987	(*b*) Bridle-paths	98	1,411	
(*c*) Houses for subordinate establishments	1,549	(*c*) Ghat-roads	65	7,483	
(*d*) Others	2,897	(*d*) Bridges	..	505	
		(*e*) Others	9	469	
	9,736		561	27,573	
Add pay of watchers	2,723	Add pay of temporary establishment ..	..	301	
Deduct cash recovery of service payments	—28	Deduct cash recovery of service payments	..	—54	
	* —13		..	* + 2	
			..	27 822	..
		Add A-VII (*c*) ..	..	..	4,819
Total ..	12,418	Total ..	561	27,822	45,059
(*a*) Head-quarter houses	1,303	(*a*) Cart-roads	621	25,676	88,731
(*b*) Rest-houses	15,778	(*b*) Ghât-roads	109	14,712	
(*c*) Houses for subordinate establishments	5,553	(*c*) Bridle-paths	168	3,162	
(*d*) Others	6,799	(*a*) Bridges	..	505	
		(*e*) Others	9	494	
	29,433		907	44,549	
Add pay of establishment	13,889	Add pay of establishment	..	579	
,, Direction charges	10	,, Direction charges	..	1	
,, as per Accountant-General's audited figures	421				
	43,753		907	45,129	
Deduct cash recoveries made ..	47	Deduct cash recoveries	..	54	
		,, as per Accountant-General's audited figures	..	50	
			907	45,025	88,731
		Add A-VII (*c*) ..	..	..	15,721
Total ..	43,706	Total ..	907	45,025	1,04,452

* Added or deducted as per Accountant-General's audited figures.

ANNUAL.

Forest Department,

REGISTER of Breaches of

District.		Cases pending from 1909–1910.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Ganjám	A	* 54	5	124	13	5	147	201
	B	* 114	6	384	64	12	466	580
	C	..	..	62	..	..	62	..
	Total ..	(a) 168	(b) 11	(c) 570	(d) 77	(e) 17	675	781
Vizagapatam ..	A	* 21	..	131	26	10	167	188
	B	* 29	1	279	75	13	368	397
	C	..	..	..	..	..	..	..
	Total ..	50	1	410	101	23	535	585
Gódávari, Upper.	A	2	..	2	1	..	3	5
	B	..	..	23	1	6	30	30
	C	..	..	..	..	..	..	..
	Total ..	2	..	25	2	6	33	35
Gódávari, Lower.	A	* 20	3	47	15	..	65	85
	B	* 30	5	216	74	20	315	345
	C	..	6	3	..	..	9	..
	Total ..	50	14	266	89	20	389	430
Kistna	A	* 46	..	44	49	3	96	142
	B	* 41	..	96	155	20	271	312
	C	..	..	..	..	..	..	..
	Total ..	87	..	140	204	23	367	454
Kurnool, East ..	A	* 12	..	19	23	1	43	55
	B	* 16	..	27	34	4	65	81
	C	..	..	..	..	..	..	..
	Total ..	28	..	46	57	5	108	136
Kurnool, South ..	A	* 32	..	90	30	4	124	156
	B	* 18	2	135	91	7	235	253
	C	..	..	8	2	..	10	..
	Total ..	50	2	233	123	11	369	409
Kurnool, West ..	A	* 56	1	140	79	24	244	300
	B	* 34	1	166	181	42	390	424
	C	..	..	50	43	8	101	..
	Total ..	90	2	356	303	74	735	724

A = Cases taken to Court. B = Cases.

* The variations between the closing balance of 1909–1910 and

† Withdrawn under the orders of the

(a) Excludes 21 cases pending from 1909-1910 relating to Parlákimedi Maliahs.
(b) Excludes 2 cases of Parlákimedi Maliahs.
(c) Do. 161 do.
(d) Do. 9 do.
(e) Do. 9 do.

FORM No. 71.

Madras Presidency.

Forest Rules during 1910–1911.

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE.						
128	468	14	39	142	507	59
324	1,044	..	..	324	1,044	121
..	..	..	..	† 135	346	
				..	..	..
(*f*) 452	(*f*) 1,512	(*g*) 14	(*g*) 39	466	1,551	180
				† 135	346	
171	391	4	86	175	477	13
332	763	..	..	332	763	48
..	..	..	..	† 17	33	
				..	..	..
503	1,154	4	86	507	1,240	61
				† 17	33	
2	5	1	1	3	6	2
13	37	..	..	13	37	7
..	..	..	..	† 10	26	
				..	..	..
15	42	1	1	16	43	9
				† 10	26	
62	135	6	20	58	155	27
219	549	2	2	221	551	97
..	..	..	..	† 27	63	
				..	..	..
271	684	8	22	279	706	124
				† 27	63	
113	365	13	79	126	444	16
220	732	..	..	220	732	72
..	..	..	..	† 20	..	
				..	..	..
333	1,097	13	79	346	1,176	88
				† 20	..	
40	120	7	18	47	138	8
52	85	..	..	52	85	11
..	..	..	..	† 18	38	
				..	..	..
92	205	7	18	99	223	19
				† 18	38	
107	330	23	59	130	439	26
143	359	..	..	143	359	63
..	..	..	..	† 47	229	
				..	..	..
250	739	23	59	273	798	89
				† 47	229	
215	517	26	106	241	623	59
303	648	..	..	303	648	48
..	..	..	..	† 73	189	
				..	..	..
518	1,165	26	106	544	1,271	107
				† 73	189	

compounded. C = Cases undetected.
these figures are due to transfers between heads A and B.
District Forest Officer or Revenue Divisional Officer.
(*f*) Excludes 114 cases of Parlakimedi Maliahs in which convictions of 282 persons were secured.
(*g*) Excludes 30 cases of Parlakimedi Maliahs in which 109 persons were acquitted.

Register of Breaches of Forest

District.		Cases pending from 1909-1910.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Bellary	A	* 54	2	108	75	20	205	259
	B	* 34	..	297	209	38	544	578
	C	..	8	3	77	..	88	..
	Total ..	88	10	408	361	58	837	837
Anantapur ..	A	‡ 132	2	399	184	15	600	732
	B	..	1	184	98	4	287	287
	C	..	169	1	24	..	194	..
	Total ..	132	172	584	306	19	1,081	1,019
Total ..	A	* 429	13	1,104	495	82	1,694	2,123
	B	* 316	16	1,807	982	166	2,971	3,287
	C	..	183	127	146	8	464	..
	Grand Total ..	745	212	3,038	1,623	256	5,129	5,410
								CENTRAL
Cuddapah, North ..	A	§ 34	2	34	36	3	75	109
	B	§ 36	..	96	74	2	172	208
	Total ..	70	2	130	110	5	247	317
Cuddapah, East ..	A	§ 41	1	47	13	5	66	107
	B	§ 80	1	129	121	55	306	386
	C	..	..	14	1	1	16	..
	Total ..	121	2	190	135	61	388	493
Nellore	A	§ 211	1	118	192	11	322	533
	B	§ 191	..	575	538	17	1,130	1,321
	C	§ 35	..	88	117	3	208	..
	Total ..	437	1	781	847	31	1,660	1,854
Chingleput ..	A	8	1	20	6	2	29	37
	B	67	..	697	254	17	968	1,035
	C	..	..	..	..	..	..	..
	Total ..	75	1	717	260	19	997	1,072
(b) Arcot, North ..	A	(a) 186	6	254	142	20	422	608
	B	(a) 370	1	1,459	893	79	2,432	2,802
	C	..	77	10	11	3	101	..
	Total ..	556	84	1,723	1,046	102	2,955	3,410

A = Cases taken into Court. B = Cases

* The variations between the closing balance of 1909-1910 and

† Withdrawn under the orders of the

‡ The increase of 7 cases over the figures in the previous year is

§ The variations between the closing balance of 1909-1910 and the

|| Cases withdrawn under the orders of the District

(a) Variations in the opening balance under A and B

(b) Figures against the districts do not include offences in

Rules during 1910–1911—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
246	736	9	32	255	768	4
452	943	1	1	453	944	43
..	..	..	..	† 82	194	..
698	1,679	10	33	708	1,712	47
				† 82	194	
431	1,089	180	468	611	1,557	121
287	674	..	..	287	674	..
..	..	..	..	..	..	..
718	1,763	180	468	898	2,231	121
1,505	4,206	283	908	1,788	5,114	335
2,345	5,834	3	3	2,348	5,837	510
..	..	..	..	† 429	1,118	..
3,850	10,040	286	911	4,136	10,951	845
				† 429	1,118	
CIRCLE.						
92	269	11	48	103	317	5
				‖ 1	5	
155	294	..	..	155	294	35
				‖ 18	55	
247	563	11	48	258	611	40
				‖ 19	60	
97	256	6	19	103	275	4
300	719	..	..	300	719	57
..	..	..	..	‖ 29	105	..
397	975	6	19	403	994	61
				‖ 29	105	
357	780	87	251	444	1,031	89
867	1,940	..	..	867	1,940	318
..	..	..	..	‖ 136	281	..
1,224	2,720	87	251	1,311	2,971	407
				‖ 136	281	
27	58	3	16	30	74	7
881	2,123	..	..	881	2,123	65
..	..	..	..	‖ 89	164	..
908	2,181	3	16	911	2,197	72
				‖ 89	164	
367	945	42	150	409	1,095	193
				‖ 6	14	
2,389	5,264	..	..	2,389	5,264	316
..	..	..	..	‖ 97	106	..
2,756	6,209	42	150	2,798	6,359	509
				‖ 103	120	

compounded. C = Cases undetected.
these figures are due to transfers between heads A and B.
District Forest-officer or Revenue Divisional officer.
due to Kadiri range having been transferred to this district.
opening balance of 1910–1911 are due to the transfer between the classes A and B.
Forest officers and Revenue Divisional officers.
are due to the reconstitution of the districts.
unreserved lands, as information has not been received from Collectors.

Register of Breaches of Forest

District.		Cases pending from 1909–1910.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								CENTRAL
Chittoor	A	(a) 129	..	67	43	16	126	255
	B	(a) 357	..	639	469	37	1,145	1,502
	C	..	101	..	..	..	101	..
	Total ..	486	101	706	512	53	1,372	1,757
Arcot, South ..	A	186	..	274	53	8	335	521
	B	333	..	1,536	463	41	2,040	2,373
	C	9	2	78	1	2	83	..
	Total ..	528	2	1,888	517	51	2,458	2,894
Salem, North ..	A	(a) 151	..	167	49	13	229	380
	B	(a) 60	1	285	86	14	386	446
	C	..	27	..	..	..	27	..
	Total ..	211	28	452	135	27	642	826
Salem, South ..	A	(a) 76	2	175	81	6	264	340
	B	108	..	383	109	18	510	618
	C	..	79	..	..	..	79	..
	Total ..	184	81	558	190	24	853	958
Trichinopoly ..	A	(a) 50	1	65	40	2	108	158
	B	494	..	1,921	460	125	2,506	3,000
	C	1	..	50	39	3	92	..
	Total ..	545	1	2,036	539	130	2,706	3,158
(b) Guntúr	A	48	1	35	79	7	122	170
	B	213	2	256	572	153	983	1,196
	C	..	..	..	.	..	.	..
	Total ..	261	3	291	651	160	1,105	1,366
Total ..	A	1,120	15	1,256	734	93	2,098	3,218
	B	2,309	5	7,976	4,039	558	12,578	14,887
	C	45	286	240	169	12	707	..
	Grand Total ..	3,474	306	9,472	4,942	663	15,383	18,105
								SOUTHERN
								Reserved
South Canara ..	A	(c) 16	29	38	6	6	79	95
	B	(c) 148	48	694	142	44	928	1,071
	C	..	277	..	..	..	277	..
	Total ..	164	354	732	148	50	1,284	1,171

A = Cases taken into Court. B = Cases
* Cases withdrawn under the orders of the District
(a) Variations in the opening balance under A and
(b) Figures against these districts do not include offences in
(c) The variations between the closing balance of 1909–1910 and
(d) Withdrawn under the orders of the District

Rules during 1910–1911—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
186	440	25	133	211	573	44
1,215	1,580	..	..	1,215	1,580	158
..	..	..	..	* 129	194	
				..	..	..
1,401	2,020	25	133	1,426	2,153	202
				* 129	194	
340	753	34	65	374	818	107
				* 40	63	
1,829	3,193	..	..	1,829	3,193	437
..	..	..	..	* 107	177	
				..	..	..
2,169	3,946	34	65	2,203	4,011	544
				* 147	240	
101	269	14	42	115	311	265
318	585	..	..	318	585	102
..	..	..	..	* 26	61	
				..	..	..
419	854	14	42	433	896	367
				* 26	61	
188	732	20	81	208	813	129
				* 3	6	
467	1,162	..	..	467	1,162	138
..	..	..	..	* 13	21	
				..	..	..
655	1,894	20	81	675	1,975	267
				* 16	27	
88	192	35	100	123	292	35
2,566	4,650	..	..	2,566	4,650	434
..	..	..	..	..	..	..
2,654	4,842	35	100	2,689	4,942	469
101	455	10	39	111	494	59
775	3,401	..	..	775	3,401	322
..	..	..	..	* 99	447	
				..	..	..
876	3,856	10	39	886	3,895	381
				* 99	447	
1,944	5,149	287	944	2,231	6,093	937
				* 50	88	
11,762	24,911	..	..	11,762	24,911	2,382
				* 743	1,611	
..	..	..	..	..	..	..
13,706	30,060	287	944	13,993	31,004	3,319
				* 793	1,699	
CIRCLE.						
Forests.						
61	115	13	27	74	142	21
773	1,858	..	..	773	1,858	158
..	..	..	..	(*d*) 145	(*d*) 246	
				..	..	..
834	1,973	13	27	847	2,000	179
				(*d*) 145	(*d*) 246	

compounded. C = Cases undetected.
Forest Officers and Revenue Divisional Officers.

B are due to the reconstitution of the districts.
unreserved lands, as information has not been received from Collectors.
these figures are due to the transfers between heads A and B.
Forest Officers or Revenue Divisional Officers.

Register of Breaches of Forest

District.		Cases pending from 1909-1910.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								SOUTHERN
								Reserved
Malabar, North ..	A	4	2	2	6	6	16	20
	B	1	..	..	..	..	..	1
	Total ..	5	2	2	6	6	16	21
Malabar, South ..	A	7 (b)—2	1	1	3	1	6	11
	B	1 (c)—1	..	5	3	..	8	8
	C	..	2	1	..	..	3	..
	Total ..	5	3	7	6	1	17	19
The Nilgiris ..	A	(a) 37	..	71	35	13	119	156
	B	(a) 23	1	66	43	5	115	138
	C	..	19	..	12	..	31	..
	Total ..	60	20	137	90	18	265	294
Kollegal	A	15	1	15	22	11	49	64
	B	38	..	95	63	5	163	201
	C	..	22	..	..	..	22	..
	Total ..	53	23	110	85	16	234	265
Coimbatore, North.	A	60	..	50	22	14	86	146
	B	53	..	98	96	15	209	262
	C	..	31	6	..	..	37	..
	Total ..	113	31	154	118	29	332	408
Coimbatore, Central.	A	39	1	99	78	41	219	258
	B	51 (c) +1	..	106	82	39	227	279
	C	..	19	..	..	..	19	..
	Total ..	91	20	205	160	80	465	537
Coimbatore, South.	A	11 (d)—1	..	43	16	6	65	75
	B	45 (d)—5	1	81	20	13	115	155
	C	..	13	..	..	..	13	..
	Total ..	50	14	124	36	19	193	230
Madura	A	88	1	20	30	23	74	162
	B	236	..	577	600	12	1,189	1,425
	C	..	31	..	..	..	31	..
	Total ..	324	32	597	630	35	1,294	1,578
Rámná	A ..	(g) 2 (f) + 16	..	25	11	1	37	55
	B ..	(g) 21 (f) — 2	..	103	85	1	189	208
	C	..	4	..	.	..	4	..
	Total ..	37	4	128	96	2	230	263

A = Cases taken into Court. B = Cases

(a) Variations between the closing balance of 1909-1910

(b) Transferred to un-

(c) Transferred to Central

(d) Transferred to

(e) Withdrawn under the orders of the District

(f) Added to or deducted from the opening

(g) Transferred to

Rules during 1910–1911—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
Forests—cont.						
8	11	1	1	9	12	8
1	1	..	..	(e) 3	(e) 6	
				1	1	..
9	12	1	1	10	13	8
				(e) 3	(e) 6	
5	9	1	2	6	11	2
				(e) 3	(e) 11	
7	14	..	..	7	14	1
..	..	..	..	..	..	..
12	23	1	2	13	25	3
				(e) 3	(e) 11	
122	367	14	35	136	402	20
82	267	..	..	82	267	11
				(e) 45	(e) 101	
..	..	..	..	..	..	..
204	634	14	35	218	669	31
				(e) 45	(e) 101	
43	108	10	48	53	156	11
143	375	..	..	143	375	41
				(e) 17	(e) 27	
..	..	..	..	..	..	..
186	483	10	48	196	531	52
				(e) 17	(e) 27	
115	547	13	40	128	587	18
179	497	..	..	179	497	25
				(e) 58	(e) 290	
..	..	..	..	..	..	..
294	1,044	13	40	307	1,084	43
				(e) 58	(e) 290	
183	531	30	93	213	624	45
220	523	..	..	220	523	31
				(e) 28	(e) 80	
..	..	..	..	..	..	..
403	1,054	30	93	433	1,147	76
				(e) 28	(e) 80	
52	215	3	12	55	227	17
				(e) 3	(e) 5	
84	254	..	..	84	254	22
				(e) 49	(e) 142	
..	..	..	..	..	..	..
136	469	3	12	139	481	39
				(e) 52	(e) 147	
99	180	10	82	109	262	44
				(e) 9	(e) 58	
997	3,453	..	..	997	3,453	333
				(e) 95	(e) 476	
..	..	..	..	..	..	..
1,096	3,633	10	82	1,106	3,715	377
				(e) 104	(e) 534	
50	146	2	8	52	154	3
147	357	..	..	147	357	39
				(e) 22	(e) 58	
..	..	..	..	..	..	..
197	503	2	8	199	511	42
				(e) 22	(e) 58	

compounded. C = Cases undetected.
and these figures are due to transfers between heads A and B.
reserved lands.
Coimbatore.
Trichinopoly.
Forest or Revenue Divisional Officer.
balance by the Collector.
Rámnád.

6

Register of Breaches of Forest

District.			Cases pending from 1909–1910.	New cases of the year.				Total new cases of the year.	Total cases.
				Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.		
1			2	3	4	5	6	7	8
									SOUTHERN
									Reserved
Tinnevelly ..	A	..	6 (a) — 2	..	54	36	..	90	94
	B	..	116 (a) — 21	..	349	291	16	656	751
	C	..	..	20	..	138	..	158	..
	Total	..	99	20	403	465	16	904	845
Total for reserved forests.	A	..	296	35	418	265	122	840	1,136
	B	..	705	50	2,174	1,425	150	3,799	4,504
	C	..	..	438	7	150	..	595	..
	Total	..	1,001	523	2,599	1,840	272	5,234	5,640
									Unreserved
South Canara ..	A	..	(b) 7	..	4	..	..	4	11
	B	..	(b) 24	..	70	..	3	73	97
	Total	..	31	..	74	..	3	77	108
Malabar, North ..	A	..	..	..	1	..	..	1	1
	B	..	..	..	4	..	..	4	4
	Total	..	..	..	5	..	..	5	5
Malabar, South ..	A	..	(c) 2	..	5	..	..	5	7
	B	..	..	..	2	..	..	2	2
	Total	..	2	..	7	..	..	7	9
Kollegal	A	..	..	..	1	..	..	1	1
	B	..	(d) 1	1	23	..	..	24	25
	Total	..	1	1	24	..	..	25	26
Coimbatore, North.	A	..	..	..	16	..	..	16	16
	B	..	19	..	77	..	..	77	96
	Total	..	19	..	93	..	..	93	112
Coimbatore, Central.	A	..	(d) 1	..	39	..	1	40	41
	B	..	..	..	156	..	..	156	156
	Total	..	1	..	195	..	1	196	197
Madura	B	..	..	..	83	..	..	83	83
Rámnád	A	..	..	..	9	..	..	9	9
	B	..	(d) 42	..	70	..	..	70	112
	Total	..	42	..	79	..	..	79	121
Tinnevelly ..	A	..	..	..	5	..	5	10	10
	B	..	1 (a) + 5	..	150	..	18	168	174
	Total	..	6	..	155	..	23	178	184

A = Cases taken into Court. B = Cases

(a) Transferred to

(b) The variations between the closing balance of 1909 1910

(c) Transferred to

(d) Cases relating to unreserved

(e) Withdrawn under the orders of the

Rules during 1910–1911—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
Forests—cont.						
79	236	3	11	82	247	12
598	1,465	..	..	598 (*e*) 53	1,465 (*e*) 150	100
..	..	..	..	..	..	..
677	1,701	3	11	680 (*e*) 53	1,712 (*e*) 150	112
817	2,465	100	359	917 (*e*) 18	2,824 (*e*) 80	201
3,231	9,064	..	..	3,231 (*e*) 512	9,064 (*e*) 1,570	761
..	..	..	..	..	..	..
4,048	11,529	100	359	4,148 (*e*) 530	11,888 (*e*) 1,650	962
Lands.						
7	8	1	5	8	13	3
58	69	..	..	58 (*e*) 5	69 (*e*) 5	34
65	77	1	5	66 (*e*) 5	82 (*e*) 5	37
1	1	..	..	1	1	..
4	4	..	..	4	4	..
5	5	..	..	5	5	..
2	4	3	13	5 (*e*) 2	17 (*e*) 5	..
1	2	..	..	1	2	1
3	6	3	13	6 (*e*) 2	19 (*e*) 5	1
..	..	..	..	..	..	1
22	39	..	..	22	39	3
22	39	..	..	22	39	4
15	27	1	2	16	29	..
94	109	..	..	94	109	2
109	136	1	2	110	138	2
30	54	8	17	38	71	3
156	Not reported.	..	..	156	Not reported.	..
186	54	8	17	194	71	3
83	89	..	..	83	89	..
7	11	2	3	9	14	..
59	134		..	59 (*e*) 2	134 (*e*) 3	51
66	145	2	3	68 (*e*) 2	148 (*e*) 3	51
10	17	..	..	10	17	..
154	199	..	..	154 (*e*) 6	199 (*e*) 6	14
164	216	..	..	164 (*e*) 6	216 (*e*) 6	14

compounded.
Rámnád.
and these figures are due to transfers between heads A and B.
unreserved lands.
lands not reported last year.
District Forest or Revenue Divisional Officers.

C = Cases undetected.

Register of Breaches of Forest

District.		Cases pending from 1909-1910.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								SOUTHERN *Unreserved*
Total for unreserved lands.	A	10	..	80	..	6	86	96
	B	92	1	635	..	21	657	749
	Total ..	102	1	715	..	27	743	845
Grand total for reserved forests and unreserved lands, Southern Circle.	A	306	35	498	265	128	926	1,232
	B	797	51	2,809	1,425	171	4,456	5,253
	C	..	438	7	150	..	595	..
		1,103	524	3,314	1,840	299	5,977	6,485
Grand total, Presidency.	A	1,855	63	2,858	1,494	303	4,718	6,573
	B	3,422	72	12,592	6,446	895	20,005	23,427
	C	45	907	374	465	20	1,766	..
	Total ..	5,322	1,042	15,824	8,405	1,218	26,489	30,000

A = Cases taken into Court. B = Cases
(a) Withdrawn under the orders of the District

Rules during 1910-1911—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
Lands—cont.						
72	122	15	40	87 (*a*) 2	162 (*a*) 5	7
631	645	..	..	631 (*a*) 13	645 (*a*) 14	105
703	767	15	40	718 (*a*) 15	807 (*a*) 19	112
889	2,587	115	399	1,004 (*a*) 20	2,986 (*a*) 85	208
3,862	9,709	..	..	3,862 (*a*) 525	9,709 (*a*) 1,584	866
..	..	..	..	..	..	..
4,751	12,296	115	399	4,866 (*a*) 545	12,695 (*a*) 1,669	1,074
4,338	11,942	685	2,251	5,023 * 70	14,193 * 173	1,480
17,969	40,454	3	3	17,972 * 1,697	40,457 * 4,313	3,758
..	..	..	..	..	..	..
22,307	52,396	388	2,254	22,995 * 1,767	54,650 * 4,486	5,238

compounded. C = Cases undetected.
Forest or Revenue Divisional Officers.

APPENDIX to Annual Form No. 71 (Statement No. II prescribed by the Government of India).

District.	Details of prosecution for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Northern Circle.	1	60	Careless ..	Withdrawn.	....	....	....
	2	..	Do. ..	Do.	....	....	....
	3	50 ..	Intentional.	Pending ..	....	....	....
	4	3 ..	Careless ..	Compounded.	....	....	....
	5	..	..	Pending ..	....	....	....
	6	..	..	Withdrawn.	....	....	....
Ganjám ..	7	..	..	Pending ..	....	....	....
	8	..	..				
	9	..	..	Withdrawn.	....	....	....
	10	..	..	Do.	....	....	....
	11	..	..				
	12	..	..	Pending ..	....	....	....
	13	..	..				
Vizagapatam.		*Nil.*	..	..	....	....	....
Gódávari, Upper.		*Nil.*	..	..	....	....	....
Gódávari, Lower.	1	1	Careless ..	Withdrawn.	....	....	....
	2	9 feet by 5 feet.	Do. ..	Compounded.	....	....	Pending with Range Officer, Peddapur.
Kistna		*Nil.*	..	..	....	....	....
Kurnool, East.		*Nil.*	..	..	....	....	....
Kurnool, South.	1	*Nil.*	Careless ..	Withdrawn.	....	....	The accused being mad was bound over by the District Magistrate for two months.
	2	*Nil.*	Intentional.	Do.	....	....	Withdrawn as there was not the least certainty that the case would stand.
Kurnool, West.	1	..	Careless ..	Withdrawn.	....	....	The case was reported from hearsay facts.
	2	..	Intentional.	Convicted ..	Section 21 (*c*) of the Madras Forest Act.	Sentenced to suffer rigorous imprisonment for 4 months.	..
Bellary ..	1	7 ..	Do.	Do. ..	Section 21 (*h*) of the Madras Forest Act V of 1882.	Fined Rs. 25 in default rigorous imprisonment for 6 weeks and to pay Rs. 15 as compensation for damage done to forest.	....
Anantapur.	1	..	Careless ..	Compounded.	....	....	Cooking meals in a reserve. Compounded for Rs. 14. Area unprotected.
	2	786 ..	Intentional.	Convicted ..	Section 21 of the Madras Forest Act.	1st accused sentenced to undergo rigorous imprisonment for 4 months; 2nd accused was acquitted.	A serious case in an unprotected area.
	3	0·33 ..	Do.	Do. ..	Do.	All the 7 accused sentenced to pay a fine of Rs. 5 each or in default to suffer simple imprisonment for a week.	Lighting fires to smoke out bees. Area unprotected.
Central Circle.							
North Cuddapah.	1	..	Intentional.	Pending ..	Section 21 (*b*) of the Madras Forest Act.	....	
	2	..	Do.	Convicted ..	Do.	Two months rigorous imprisonment.	
*East Cuddapah.	1	2 acres ..	Do.	Do. ..	Do.	Three months rigorous imprisonment.	
	2	..	..	Compounded.	....	....	Details for other columns not furnished by Collector.
Nellore ..	1	0·10 acre ..	Intentional.	Pending ..	....	....	
Chingleput..	1	0·1 ,,	Careless ..	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 7 in default to suffer rigorous imprisonment for two weeks.	
North Arcot.	1	5·0 acres ..	Do.	Acquitted ..	245, Criminal Procedure Code.	....	
	2	Less than 2·0 acres ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Two accused fined Rs. 25 each.	
	3	35·0 ,, ..	Do.	Do. ..	Section 21 (*b*) of the Madras Forest Act.	Two months rigorous imprisonment.	
	†	..	..	..	....	....	

* The pending cases of the previous year for East Cuddapah have not been reported on by the Collector.
† Information regarding other cases of the year has not been furnished † Including four pending cases of last year.

Appendix to Annual Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number of fire.	Area burnt in acres.	Character of offences (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Central Circle—cont.							
*Salem, North.	1	50	Careless ..	Pending ..	Section 21 (*b*) of the Madras Forest Act, V of 1882.	....	
Salem, South.	1	30·0 acres..	Intentional.	Pending ..	....	....	
	2	29·0 ,, ..	Do.	Do. ..	....	....	
Trichinopoly.	1	1·0 ,, ..	Do.	Do. ..	....	....	
Guntúr ..	1	4 sq. yards.	Careless ..	Compounded.	Section 21 (*b*) of the Madras Forest Act, V of 1882.	....	
	2	..	Do. ..	Withdrawn.	Do.	....	
	3	..	Intentional.	Pending ..	Sections 21 (*b*) and (*f*) of the Madras Forest Act, V of 1882.	....	
Southern Circle.							
	† 1	1 acre ..	Carelessness.	Compounded for Rs. 2	....	....	
	† 2	2 acres ..	Intentional.	Compounded for Rs. 5.	....	....	
	† 3	1 acre ..	Carelessness.	Compounded for Rs. 4.	....	....	
	† 4	10 acres ..	Do.	Compounded for Rs. 5.	....	....	
	† 5	180 ,, ..	Do.	Compounded for Rs. 5.	....	....	
	† 6	..	Do.	Compounded for Rs. 2.	....	....	
	† 7	..	Carrying torches.	Compounded for Rs. 2.	....	....	
	8	·40 acre ..	Carelessness.	Compounded for Rs. 2.	....	....	
	9	3 acres ..	Do.	Compounded for Rs. 8.	....	....	
	10	..	Do.	Compounded for Rs. 6.	....	....	
	11	10 acres ..	Do.	Compounded for Rs. 2.	....	....	
	12	20 ,, ..	Do.	Compounded for Rs. 15.	....	....	
	13	·50 acre ..	Do.	Compounded for Rs. 3.	....	....	
	14	8 acres ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Two accused—one fined Rs. 4 and the other acquitted.	
Canara, South.	15	4 ,, ..	Do.	Do. ..	Do.	Sentenced to suffer two weeks' rigorous imprisonment.	
	16	10 ,, ..	Do.	Do. ..	Do.	Fined Rs. 6.	
	17	1 acre ..	Do.	Do. ..	Do.	,, Rs. 8.	
	18	70 acres ..	Do.	Do. ..	Do.	,, Rs. 40.	
	19	15 ,, ..	Do.	Do. ..	Do.	,, Rs. 15.	
	20	50 ,, ..	Carelessness.	Compounded for Rs. 20.	....	....	
	21	200 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 30.	
	22	100 ,, ..	Do.	Do. ..	Do.	,, Rs. 20.	
	23	12 ,, ..	Do.	Compounded for Rs. 12.	....	....	
	24	20 ,, ..	Do.	Compounded for Rs. 16.	....	....	
	25	..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to suffer fifteen days' rigorous imprisonment.	
	26	1·75 acres.	Do.	Do. ..	Do.	Fined Rs. 10.	
	27	..	Do.	Compounded for Rs. 2.	....	....	
	28	..	Do.	Compounded for Rs. 4.	....	....	
	29	36 acres ..	Do.	Compounded for Rs. 30.	....	....	
	30	·50 acre ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 5.	
	31	..	Do.	Do. ..	Do.	,, Rs. 5.	
	32	1·50 acres.	Do.	Do.	Do.	,, Rs. 12.	
	33	..	Do.	Compounded for Rs. 5.	....	....	

* The pending cases of the previous year for North Salem have not been reported on by the Collector. † Pending cases of previous year.

Appendix to Annual Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offences (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Southern Circle—cont.							
Canara, South—*cont.*	34	..	Carelessness.	Compounded for Re. 1.	....	....	
	35	6 acres ..	Do.	Compounded for Rs. 4.	....	....	
	36		Do.	Compounded for Rs. 3.	....	....	
	37 to 44	198·50 acres.	Intentional.	Acquitted ..	....	....	
	45	2·75 ,, ..	Carelessness.	Do. ..	....	....	
	46 to 49	139 ,, ..	Intentional.	Withdrawn.	....	....	
	* 50 to 62	350 ,, ..	Carelessness.	Do.	....	....	
	63 to 80	230·05 ,, ..	Do.	Pending ..	....	....	
	81 to 88	573 ,, ..	Intentional.	Do. ..	....	....	
Malabar, North.	† 1	681 acres ..	Do.	Do. ..	....	....	
	2	30 ,, ..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 15 in default to suffer rigorous imprisonment for one month.	
	3	·50 acre ..	Do.	Withdrawn.	....	....	
Malabar, South.	1	1 ,, ..	Do.	Pending ..	....	....	
The Nilgiris.	† 1	1 ,, ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Two accused fined Rs. 5 each.	
	2	1 ,, ..	Do.	Withdrawn.	....	....	
Kollegal ..	† 1	320 acres ..	Intentional.	Do.	....	....	
	† 2	10 ,, ..	Carelessness.	Do.	....	....	
	3	·30 acre ..	Intentional.	Pending ..	....	....	
Coimbatore, North.	† 1	Not known.	Do.	14 accused acquitted and 1 convicted.	Section 21 (*c*) of the Madras Forest Act.	Fined Rs. 30 in default to suffer 30 days' rigorous imprisonment.	
	† 2	960 acres ..	Do.	Acquitted ..	....	....	
	† 3	480 ,, ..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Five accused; three fined Rs. 25 each or to suffer 10 days' rigorous imprisonment each and the case against the other two is pending.	
Coimbatore, Central.	1	·54 acre ..	Do.	Acquitted ..	....	....	
Coimbatore, South.	1	10 acres ..	Do.	Compounded for Rs. 50.	....	....	
Madura ..	1	100 ,, ..	Intentional.	Pending ..	....	....	
Rámnád ..	† 1	....	Do.	Acquitted ..	....	....	

* Includes four pending cases of last year.

† Pending cases of previous year.

ANNUAL FORM No. 72.

AREA of Forest Tracts protected from Fire during 1910–1911.

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	Northern Circle.	ACS.	ACS.	ACS.	ACS.	RS.	
Ganjám ..	Special protection ..	83,361	99,085	417	98,668	3,233 — 232	Deducted as per Accountant-General's figures.
Vizagapatam.	Special protection ..	94,386	112,284	939	111,345	2,259	The increase of 11,402 acres in column 3 over previous year's figures has not been explained by the Collector.
	General do. ..	67,291	72,795	6,405	66,390		
	Total, Vizagapatam ..	161,677	185,079	7,344	177,735	2,259	
Gódávari, Upper.	General protection ..	197,683	337,746	1,451	336,295	9,436 + 1	Added as per Accountant-General's figures.
Gódávari, Lower.	General do. ..	199,531	204,789	1,770	203,019	2,106 + 7	Do.
Kistna ..	Special do. ..	45,757	47,092	619	46,473	910	
Kurnool, East.	Special do. ..	9,283	25,650	305	25,345	3,349	
Kurnool, South.	Special do. ..	159,599	162,059	9,881	152,178	20,833	Do.
	General do. ..	..	121,329	109,009	12,329	+ 6	
	Total, Kurnool, South ..	159,599	283,388	118,881	164,507	20,839	
Kurnool, West.	Special protection ..	103,761	166,475	29,611	136,864	9,056	The increase of 47,928 acres in column 3 over previous year's figures in the 3 Kurnools has not been explained by the Collector
Bellary ..	Special protection ..	51,841	70,585	13,258	57,327	6,843	
Anantapur	Special do. ..	100,907	113,984	13,436	100,548	3,329	Increase of 30,092 acres over previous year's figures is due to Kadiri Range added to this Circle.
						— 64	Deducted as per Accountant-General's figures.
	General protection ..	3,824	..	..	..	..	
	Total, Anantapur ..	104,731	113,984	13,436	100,548	3,265	
	Total, Special, Northern Circle	648,895	797,214	68,466	728,748	49,522	
	Total, General, Northern Circle	468,329	736,659	118,626	618,033	11,550	
	Grand Total (Special and General).	1,117,224	1,533,873	187,092	1,346,781	61,072	
	Central Circle.						
Cuddapah, North.	Special protection ..	279,686	217,969	17,604	200,365	3,497	
	General do. ..	..	102,981	9,838	93,143	565	
	Total ..	279,686	320,950	27,442	293,508	4,062	
Cuddapah, East.	Special protection ..	352,282	212,907	1,811	211,096	1,975	
	General do. ..	..	224,317	35,002	189,315	1,479 435	
	Total ..	352,282	437,224	36,813	400,411	3,889	

Area of Forest Tracts protected from Fire during 1910-1911—*cont.*

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	Central Circle—cont.	ACS.	ACS	ACS.	ACS.	RS.	
Nellore ..	Special protection ..	151,152	149,670	530	149,140	1,167	
	General do. ..	..	860	30	830	..	
	Total .	151,152	150,530	560	149,970	1,167	
Chingleput.	Special protection ..	25,784	25,856	..	25,856	1,012	
	General do. ..	..	..	..	..	..	
	Total ..	25,784	25,856		25,856	1,012	
North Arcot.	Special protection ..	181,731	194,023	4,493	189,530	2,602	
	General do. ..	379,533	382,425	2,823	379,602		
	Total ..	561,264	576,448	7,316	569,132	2,602	
Chittoor ..	Special protection ..	160,739	134,308	1,205	133,103	664	
	General do. ..	293,762	304,631	5,578	299,053	..	
	Total ..	454,501	438,939	6,783	432,156	664	
South Arcot.	Special protection ..	13,718	13,787	..	13,787	476	
	General do. ..	..	199,089	19	199,070	..	
	Total ..	13,718	212,876	19	212,857	476	
North Salem.	Special protection ..	12,984	13,436	350	13,086	679	
	General do. ..	21,272	467,504	5,256	462,248	818	
	Total ..	34,256	480,940	5,606	475,334	1,497	
South Salem.	Special protection ..	*218,478	233,501	728	232,773	3,210	* Revised figure
	General do. ..	..	138,266	1,533	136,733		
	Total ..	218,478	371,767	2,261	369,506	3,210	
Trichinopoly.	Special protection ..	56,873	49,113	..	49,113	60	
	General do. ..	..	..	..	..	..	
	Total ..	56,873	49,113	..	49,113	60	
Guntúr ..	Special protection ..	49,741	34,537	7	34,530	265	
	General do. ..	61,012	486,710	791	485,919	..	
	Total ..	110,753	521,247	798	520,449	265	
	Total, Special protection, Central Circle	1,503,168	1,279,107	26,728	1,252,379	15,607	
	Total, General protection, Central Circle	755,579	2,306,783	60,870	2,245,913	3,297	
	Grand total (Special and General)	2,258,747	3,585,890	87,598	3,498,292	18,904	
	Southern Circle.						
South Canara.	Special protection ..	124,824	124,703	6,384	118,319	2,204	†Fire-tracing cart stands. 10
	General do. ..	425,809	392,852	7,796	385,056	271	Fire-tracing Mysore-South Canara boundary. 726
						+† 932	Cost of previous year disbursed during the year .. 94
	Total ..	550,633	517,555	14,180	508,375	3,407	Cost of re-clearing lines in Jedkal and Kollur beats .. 102
							Total .. 932

NOTE.—The difference between column 7 of the previous year and column 3 of this year in the Central Circle was due to the transfer of Kadiri range to Northern Circle and to revised figures furnished by the Collectors.

Area of Forest Tracts protected from Fire during 1910–1911—*cont.*

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	Southern Circle—cont.	ACS.	ACS.	ACS.	ACS.	RS.	
Malabar, North.	Special protection ..	126,486	140,461	833	139,628	7,468	
	General do. ..	..	..	..	..	+ 67	Cost of planting on fire lines.
	Total ..	126,486	140,461	833	139,628	7,535	
Malabar, South.	Special protection ..	94,554 (a)—13,944	80,622	338	80,284	2,292	
	General do. ..	..	..	..	..	..	
	Total ..	80,610	80,622	338	80,284	2,292	
The Nilgiris.	Special protection ..	59,199	66,451	13,779	52,672	3,287 (c)+ 1	
	General do. ..	..	..	..	..	.	
	Total ..	59,199	66,451	13,779	52,672	3,288	
Kollegal ..	Special protection ..	66,730	73,968	150	73,818	2,544	
	General do. ..	341,051	393,564	16,400	377,164	..	
	Total ..	407,781	467,532	16,550	450,982	2,544	
Coimbatore, North.	Special protection ..	58,540	62,053	430	61,623	2,110	
	General do. ..	504,659	521,695	7,807	513,888	..	
						+ 379	Amount spent on clearing Mysore boundary.
	Total ..	563,199	583,748	8,237	575,511	2,489	
Coimbatore, Central.	Special protection ..	65,024	68,447	580	67,867	2,686	
	General do.	163,960 (b)—36,450	128,153	376	127,777	2	
	Total ..	192,534	196,600	956	195,644	2,688	
Coimbatore, South.	Special protection ..	29,692	30,646	152	30,494	2,141	
	General do. ..	193,954	194,184	1,309	192,875	..	
	Total ..	223,646	224,830	1,461	223,369	2,141	
Madura ..	Special protection ..	140,334	145,453	975	144,478	3,758	
	General do. ..	279,320	281,050	2,103	278,947	47	
	Total ..	420,154	426,503	3,078	423,425	3,805	
Rámnád ..	Special protection ..	3,820	4,722	1,930	2,792	189	
	General do. ..	38,266	38,791	359	38,432	240	
	Total ..	42,086	43,513	2,289	41,224	429	
Tinnevelly.	Special protection ..	28,960	29,055	313	28,742	784	
	General do.	170,236 (a)—23,641	168,378	5,288	163,090	1,106 (c) + 2	
	Total ..	175,555	197,433	5,601	191,832	1,892	
	Total, Special, Southern Circle.	784 719	826,581	25,864	800,717	29,463	
	Total, General, Southern Circle.	2,057,164	2,118,667	41,438	2,077,229	1,666	
	Grand total (Special and General).	2,841,883	2,945,248	67,302	2,877,946	31,129 + 1,378 (c) + 3	
	Total, Presidency (Special)	2,936,782	2,902,902	121,058	2,781,844	95,973	
	Do. (General).	3,281,072	5,162,109	220,934	4,941,175	16,513	
	Grand total, Presidency (Special and General) ..	6,217,854	8,065,011	341,992	7,723.019	1,12,486	

(a) Rectification due to adoption of Survey of India figures.
(b) Last year's figures are reported to be incorrect.
(c) Added as per Accountant-General's audited figures.

ANNUAL FORM NO. 73.

AREA closed and open to grazing during 1910-1911.

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Area closed to goats only.	Open to all animals.	Total forest area as per Form No. 65.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	77	..	..	..	599	..	599
Vizagapatam ..	14	..	..	..	302	..	302
	..	..	..	..	10	..	10
Gódávari, Upper ..	1	..	..	..	428	..	428
	..	..	..	..	450	90	540
Do. Lower ..	13	..	271	..	136	..	407
	75	..	..	..	75	..	75
Kistna	39	9	..	..	198	71	278
	..	..	..	..	..	19	19
Kurnool, East	40	..	..	..	1,003	..	1,003
Do. South	268	..	..	..	774	..	774
Do. West	222	..	..	..	858	..	858
Bellary	75	..	..	..	522	102	624
	33	..	..	..	33	33	66
Anantapur	115	..	..	..	734	19	753
	..	..	..	..	..	77	77
Total ..	864	9	271	..	5,554	192	6,026
	108	..	..	..	568	219	787
Central Circle.							
Cuddapah, North	46	..	..	..	664	71	734
							1
Do. East	111	..	..	..	1,065	18	1,083
Nellore	35	2	60	..	605	70	737
Chingleput	43	..	..	..	211	2	213
Arcot, North	115	..	..	..	1,219	26	1,244
							1
Chitoor	94	28	..	..	808	4	839
							1
Arcot, South	22	..	22	..	324	..	346
Salem, North	63	..	63	..	717	58	792
							46
Do. South	64	..	..	..	587	..	581
							6
Trichinopoly	17	..	..	..	360	..	356
							4
Guntúr	139	..	..	..	689	125	814
Tota ..	749	30	145	..	7,249	374	7,739
							59
Southern Circle.							
Canara, South	12	..	..	..	783	..	795
	..	..	..	..	110	..	110
Malabar, North	30	..	231	..	..	..	261
	..	..	1	..	..	..	1
Malabar, South	108	..	..	..	..	..	108
	55	..	..	..	..	..	55
Nilgiris, The	22	..	..	..	456	..	478
	3	..	..	..	79	..	82
Kollegal	79	3	..	..	365	..	447
	10	..	..	..	248	..	258
Coimbatore North ..	16	..	..	..	905	..	*921
	..	..	..	..	* ..	..	† ..
Coimbatore, Central ..	59	1	..	..	247	..	307
	48	..	..	..	..	..	48
Coimbatore, South	23	..	..	..	431	..	454
Madura	109	..	..	..	*451	106	* 666
	..	..	..	..	..	..	..
Ramnad	31	8	4	..	30	..	73
Tinnevelly	258	14	..	..	* 82	..	354
	1	..	..	..	..	..	1
Total ..	747	26	235	..	3,750	106	4,864
	117	..	1	..	437	..	555
Grand Total, Presidency ..	2,360	65	651	..	16,553	672	18,629
	225		1		1,005	219	1,401

N.B.—1. Of the figures in brackets, the upper ones denote the area of reserved forests and the lower ones the area of reserved lands.

* Less than one square mile. † One acre.

ANNUAL FORM No. 74.

Forest Department, Madras Presidency.

RETURN of Grazing in the State forests during 1910–1911.

ANNUAL

Forest Department,

RETURN of Grazing in the

District.	Grazing on payment. Number									
	At enhanced or special rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.					RS.					RS.
Ganjám	..	..	..	..	..	(*w*)11,964	(*x*)39,620	S 303	..	11,944
Vizagapatam	(*a*) 118	(*a*) 3,473	(*a*) S 4,074	..	1,436	1,510	17,398	S 2,894	..	4,100
Gódávari, Upper	(*b*) 24	(*b*) 5,920	..	..	1,862	..	..	..	..	..
Do. Lower	(*e*) 1,048 (*a*) 8,032	(*e*) 585 (*a*) 10,990	S 265	..	7,794	(*g*) 1,466 Fodder grass sold.	(*g*)11,794	..	..	1,841 83
Kistna	(*e*) 873	(*h*) 1,755 (*e*) 9,970	(*h*) G 5,513 (*e*) S 1,449	..	7,798	6,413	22,361	S 29,018	..	9,318
Kurnool, East	..	(*a*) 13,196 (X) 5	(*a*) S 54	..	3,306	40	..	..	..	15
Do. South	(*a*) 5,416	(*a*) 66,218 (X) 557	S 3,229	..	19,736	1,785	9,643	S 33,863	..	5,652
Do. West	(*a*) 7,349	(*a*) 29,486	S 16,017	Fodder grass 307 *C. L.*	13,144	6,972	39,841	S 28,238 ..	Fodder grass 101 *C.L.*	12,764
Bellary	..	..	..	..	..	12,522	52,274	S 184,852 G 92,077	..	40,459
Anantapur	..	..	..	..	..	2,500	45,310 (*i*) 80 (*j*) 377	G 86 S 121,436 (*i*) S 2,295	..	20,993
Total ..	22,860	141,693 (X) 562	S 25,088 G 5,513	Fodder grass 307 *C.L.*	55,076	45,172	238,698	S402,899 G92,163	Fodder grass 101 *C.L.*	1,07,169
Unreserved lands— Gódávari, Lower ..	(*a*) 6,277	(*a*) 11,076	..	..	5,907	Sale proceeds of pasture.				635
CENTRAL CIRCLE.										
Cuddapah, North ..	..	..	..	..	..	1,364	28,724	G 12,655	..	22,585
	..	..	..	..	..	..	..	S 110,510	..	
	..	..	..	..	..	..	..	..	..	(*k*) 6
	..	..	..	..	..	..	..	..	..	(*l*) 4
Do. East	..	..	..	..	..	3,796	43,069	G 3,456	..	18,617
	..	..	..	..	..	..	..	S 78,829	..	
Nellore	..	(*o*) 62,674	G 16,880 S 122,269	(*o*)	35,422	7,288	..	..	..	2,733
	..	..	..	..	..	..	..	..	..	
Chingleput	..	..	..	..	..	2,744	34,498	G 378	..	12,814
	..	..	..	..	..	..	..	S 55,719	..	
Arcot, North	..	15,469	..	..	3,867	5,526	145,755	S 95,988	..	42,849
	..	..	..	..	..	..	..	G 5,931	..	
Chittoor	..	..	..	..	..	2,252	81,876	S 71,487	..	22,960
	..	..	..	..	..	..	..	G 82	..	
Arcot, South	..	..	..	..	..	4,648	64,925	S 139,136	..	27,033
	..	..	..	..	..	..	(*r*) 177	S (*r*) 137	..	(*k*) 2
Salem, North	4,051	74,315	S 21,063 (*s*) G 9,110	..	27,792	11	24,503	S 18,645	..	6,346
	..	..	..	..	..	..	..	..	..	(*k*) 279
Do. South	..	..	..	..	..	1,381	101,404	S 40,452	..	23,323
Trichinopoly	..	..	..	..	..	1,052	27,685	S 92,445	..	14,252
	..	..	..	..	..	11,455	15,040	G 32,175	..	17,998
	..	..	..	..	..	..	..	S 83,899	..	
	(*t*) 887	2,176	G 5,302 S 10,364	..	2,946	..	..	..	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..
	(*u*) 2,900	58,554	G 38,185 S 83,793	..	47,003	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..
	(*v*) ..	657	G 88 S 12	..	398	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..
	(*w*) ..	2,865	..	..	2,863	..	..	..	..	..
Total ..	7,838	217,708	G 69,565 S 237,501	..	1,20,291	41,517	567,656	G 54,672 S 787,247	..	2,11,801

G = Goats. S = Sheep. X = Young ones at half rates. C.L. = Cart loads.

The full rates are 6 annas per buffalo, 3 annas per cow and annas 1-6 per sheep.

(*a*) The enhanced rates are 8 annas per buffalo, 4 annas per cow or bullock and 2 annas per sheep.

(*c*) The privileged rates in the Nugur Range are 4 annas per buffalo, 2 annas per cow or bullock, 1 anna 3 pies per goat, 1 anna per sheep and 2 annas per horse.

(*e*) The enhanced rates are 12 annas per buffalo and 6 annas per cow or bullock and 3 annas per sheep.

(*g*) The full rates in Gódávari, Lower, are 4 annas per buffalo and 2 annas per cow or bullock.

(*i*) The rates are 1 anna 6 pies per cow and 9 pies per sheep.

(*k*) Penning fees.

(*m*) 80 cows at As. 1-6 and 138 at 1 anna.

(*o*) Cows or bullocks at As. 4, sheep As. 2 and goats As. 4.

(*q*) Includes value of chits for fodder grass and leaves and excess remittance by Grazing permit issuing gumastahs.

(*s*) At As. 8.

(*u*) At As. 12 per buffalo, As. 6 per cow and As. 3 per goat or sheep.
Plough bullocks at Re. 1.

(*w*) Excludes 82 buffaloes belonging to the Parlakimedi maliahs.

(*x*) Do. 83 bulls do. do.

FORM No. 74.

Madras Presidency.

State forests during 1910-1911.

of animals.						Grazing free. Number of animals.										
At privileged rates.						By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11,944
..	..	..	..	..	..	..	200	..	..	38	..	4,620	..	..	866	904	6,081
(c) & (y) 4,873	(c) & (z) 25,687	(c) G 3,529 (c) S 2,462	..	4,859	7,205	..	..	..	..	..	2,217	22,660	..	..	5,080	5,080	20,028
(d) 4,708	(d) 21,963	(d) S 7,901	..	2,208	6,624												
(f) 493	(f) 14,090	..	..	911	1,884	..	..	..	..	..	..	..	..	..	..	..	7,467
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12,496
..	..	..	..	..	..	157	235	G 762, 1,140	..	281	..	..	..	..	..	281	2,776
..	..	..	..	.	..	2	(X) 21, 26	G 66	..	13	..	..	..	..	..	13	20,467
..	..	..	..	..	..	..	1,491	S 3,303	..	589	..	..	..	..	..	589	23,139
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40,459
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20,993
10,074	61,740	G 3,529 S 10,363	..	7,978	15,713	159	1,947 (X) 26	S 4,443 G 828	..	921	2,217	27,280	..	..	5,946	6,867	1,65,850
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,589
..	72	S 200	..	16	32	..	..	..	..	..	..	..	..	..	..	..	22,627
..	(m) 218	(n) 699	..	43	106	..	522	..	..	98	..	..	..	..	..	..	18,821
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(p) 48,939
..	..	..	..	..	..	..	..	..	..	..	..	84	..	..	16	16	12,830
150	1,701	..	..	185	375	..	..	..	..	..	..	..	..	..	..	..	(q) 47,378
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22,960
..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	27,035
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34,417
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23,323
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14,252
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	71,208
150	1,991	S 899	..	247	513	..	522	..	..	98	..	84	..	..	16	16	3,43,790

The enhanced rates are As. 8 per buffalo, As. 4 per cow or bullock and As. 2 per sheep.

(*b*) The enhanced rates are 8 annas per buffalo, 5 annas per bullock or cow for alien cattle in the Nugur Range.

(*d*) The privileged rates in the Bhadráchallam, Marrigudem and Rékapalle Ranges are 2 annas per buffalo, 1 anna per cow and 6 pies per sheep.

(*f*) The privileged rates are 1 anna per buffalo and 1 anna per bullock or cow.

(*h*) The enhanced rates are 1 rupee per bullock and 4 annas per goat.

(*j*) The rate is 9 pies per cow.

(*l*) Recovery of short collection during previous year.

(*m*) 349 sheep at 9 pies and 350 at 6 pies.

(*p*) Includes kancha rent and value of chits for fodder grass and leaves and advance payments made by grazing permit issuing gumastahs.

(*r*) 94 cows at As. 4 for grazing in 2 blocks, 45 at As. 5 for grazing in 3 blocks and 38 at As. 6 for grazing in casuarina plantation and 137 sheep at As. 2-6 for grazing in three blocks.

(*t*) At As. 8 per buffalo, As. 4 per cow and As. 2 per goat or sheep.

(*v*) At As. 9 per cow and As. 4-6 per goat or sheep.

(*y*) Excludes 2 buffaloes belonging to the Parlákimedi maliahs.

(*z*) Do. 1,173 bulls do.

Return of Grazing in the

District.	Grazing on payment. Number									
	At enhanced rates.					At full rates				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.					RS.					RS.
Reserved forests.										
South Canara	..	..	..	..	..	5,061	37,284	..	..	8,888
Malabar, North	..	..	..	..	..	984	2,160	..	..	774
Do. South	..	..	..	..	..	(c) 2,309	4,331	..	..	839
						..	..	..	..	(f) 3
The Nilgiris	..	‡ 968 (d) 50	..	..	496	8,085 (d) 25	15,584 (d) 611	S. 846	152	6,124 (a) 199
Kollegal *	587 † 722	11,187 35,613	S. 2,072 S. 3,645	..	3,349 2,430	..	..	..	..	..
Coimbatore, North * ..	1,083 † 3,776	16,677 57,202	S. 11,629 S. 16,057	12 ..	6,167 4,549 (a) 210 (b) 12	..	..	..	..	..
										2,276
Do. Central ..	..	..	..	..	.	137 (e) 10	8,946 9,615	S. 5,837 S. 2,144	.. ..	502 (g) 1,266 (a) 148
										(h) — 915
					.	128	2,600	S. 970	(l) 5	676 451
Do. South ..	..	..	..	..	..					(a) 367
						(e) 85	9,395	S. 120	..	(g) 79 (h) — 252
Madura *	245	67,769	G. 45,673 S. 46,634	29	45,738	..	..	..	..	..
Rámnád	..	..	..	..	..	..	355	S. 667	..	129
						(c) ..	3,007	S. 6,245		575
										(i) 5
Tinnevelly	..	..	..	..	..	141	2,229	S. 5,364	..	974
						(c) 27	4,768	S. 10,173		929
Total ..	6,413	189,466	G 45,673 S. 80,037	41	62,951	16,992	100,885	32,366	157	24,027
Reserved lands.										
The Nilgiris	.	‡ 284	..	..	142	693	670	..	..	385
Kollegal *	35 † 374	523 7,139	S. 4 S. 99	..	149 496	..	..	..	..	..
Total ..	409	7,946	103	..	787	693	670	..	..	385
Grand Total, Presidency ..	43,797	568,351	S. 342,729 G. 120,751	41	2,45,012	104,374	907,909	S1,2,22,512 G 1,46,835	157	3,44,017

Full rates :—As. 6 per buffalo, As. 3 per cow, bullock or other animals and As. 1-6 per sheep.
(a) Sale-proceeds of fodder grass.
(c) Half of the full rates owing to change of grazing season.
(e) One-quarter of the full rates owing to change of grazing season.
(g) Advance received from Permit Issuing Officers for purchase of permits.
(i) Penning license fee.
(k) As. 3 per 100 per diem.
S = Sheep. G = Goats.
* As. 8 per buffalo and goat, As. 4 per cow, bullock or other animals and As. 2 per sheep.
† One-quarter of the above rates owing to change of grazing season.
‡ As. 8 per cow or bullock.

State forests during 1910-1911—*cont.*

of animals.						Grazing free. Number of animals.										
At privileged rates.*						By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				Rs.	Rs.										Rs.	Rs.	Rs.
(*j*) 4,435	(*j*) 3,937	..	..	1,570	2,401	..	..	..	..	..	..	..	..	..	..	..	11,289
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,613
..	..	S. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	(*k*) 199	(*k*) 1,236	..	8	153	..	..	..	..	..	66	20	..	..	28	28	7,000
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,779
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10,938
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,267
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,321
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45,738
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	709
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,903
4,435	4,136	1,236	..	1,578	2,554	..	..	..	..	..	66	20	..	..	28	28	89,560
..	..	..	..	..	..	..	..	..	..	..	1,515	..	..	..	568	568	1,095
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	645
..	..	..	..	..	..	..	..	..	..	..	1,515	..	..	..	568	568	1,740
14,659	67,867	S 12,498 G 3,529	..	9,803	18,780	159	2,495	S 4,443 G 828	..	1,019	3,798	27,384	..	..	6,520	7,451	6,04,529

(*b*) Excess collection.
(*d*) Calves, half rates.
(*f*) Sale of permits.
(*k*) Advance received from Permit Issuing Officers adjusted during the year.
(*j*) As. 3 per buffalo, cow or bullock.
(*l*) Elephants, Rs. 10 each.

ABSTRACT of animals permitted to grazing in reserved forests and reserved lands on *payment*.

Circles.	Buffaloes and calves.	Bullocks and calves.	Sheep.	Goats.	Other animals.	Total.
Northern Circle	84,383	453,669	438,350	101,205	.	1,077,607
Central Circle	49,505	787,355	1,025,647	124,237	..	1,986,744
Southern Circle	28,942	303,103	113,742	45,673	198	491,658
Total ..	162,830	1,544,127	1,577,739	271,115	198	3,556,009

ANNUAL FORM NO. 75.

Forest Department, Madras Presidency.

ARTIFICIAL reproduction, 1910-1911.

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1910.	Added during the year.	Excluded during the year.	Area on 30th June 1911.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.										
A.—Regular Plantations.										
					RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	348	64	61	351	442	662	34,342	8,387	477	11,842
Vizagapatam	78	..	..	78	..	..	..	5	..	1,575
Gódávari, Lower	831	74	49	856	3,047	3,851	41,804	17,214	11,665	58,326
Kistna	1,117	75	(a) 71	1,121	560	11,997	18,754	40,491	5,048	50,368
Kurnool, East	39	33	1	71	2,778	992	28,600	17,289	* ..	..
Do. South	..	..	..	..	310	..	310	..	..	..
Do. West	565	203	77	691	37,469	3,707	1,63,679	19,458	120	842
Bellary	346	100	..	446	1,133	15,277	7,031	54,537	..	..
Total	3,324	549	259	3,614	45,739	36,486	2,94,520	1,57,381	17,310	1,22,953
CENTRAL CIRCLE.										
A.—Regular Plantations.										
Cuddapah, North	..	..	..	..	..	..	..	..	..	..
Do. East	,496	..	..	1,496	..	* 345	Not known.		73	Not known.
Nellore	5,265	50	..	5,315	17,130	..	1,20,829	..	31,817	3,83,831
Chingleput	306	36	..	342	3,185	424	5,084	3,628	1,069	9,154
Arcot, North	1,175 / (a) * 25	..	..	* 1,175 / 25	2,010	504	10,108	1,28,193	4,058	60,582
Chittoor	19	..	..	19	..	107	315	550	..	..
Arcot, South	932	232	..	1,164	5,319	504	32,098	3,228	10,188	1,31,653
Salem, North	Transferred to cultural operations.									
Do. South	552	..	..	552	..	..	34,952	8,530	658	9,372
Trichinopoly	† 619	140	..	759	1,360	1,431	† 33,111	† 6,872	2,787	† 14,530
Guntúr	1,836	553	140	2,229	12,829	71	44,580	5,512	3,552	15,295
Total	12,225	991	140	13,076	41,833	3,386	2,81,077	1,56,523	54,202	6,24,417
SOUTHERN CIRCLE.										
A.—Regular Plantations.										
South Canara	122	..	..	122	..	172	2,263	6,708	1,590	17,292
Malabar, North	870	..	..	870	..	381	15,164	16,763	..	..
Do. South	6,115	136	..	6,251	3,422	4,376	5,34,051	5,11,412	79,689	14,52,493
The Nilgiris	1,687	74	..	1,761	3,820	967	4,950	2,76,158	28,324	4,63,875
Coimbatore, Central	449	35	..	484	57	47	315	184	..	..
Do. South	63	30	..	93	1,256	273	8,240	431	..	..
Madura	348 / ‡—10	81	..	419	8,271	..	14,271	481	341	1,531
Tinnevelly	1,632	115	..	1,747	570	589	3,210	3,821	..	..
Total	11,276	471	..	11,747	17,396	6,805	5,82,464	8,15,958	1,04,944	19,35,191
Grand Total, Plantations, Presidency.	26,825	2,011	399	28,437	104,968	46,677	11,58,061	11,29,862	1,76,456	26,82,561
NORTHERN CIRCLE.										
B.—Taungya Plantations.										
Gódávari, Upper	125	..	..	125	..	..	1,826	586	..	934
CENTRAL CIRCLE.										
B.—Taungya Plantations.										
Arcot, North	1,313	..	..	1,313	42	..	..	637	..	..
Chittoor	123	..	..	123	..	567	..	‡1,889	..	..
Trichinopoly	595	..	..	595	..	..	..	..	3,838	..
Total	2,031	..	..	2,031	42	567	..	2,526	3,838	..

(a) Includes 4 acres transferred in 1909-10 to the Revenue Department being Bandar Taluk office compound.

* Revised figure. † Revised figures furnished by the Collector. ‡ Deducted from opening balance by the Collector.

Artificial reproduction, 1910–1911—*cont.*

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1910.	Added during the year.	Excluded during the year.	Area on 30th June 1911.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.										
B.—Taungya Plantations.										
					RS.	RS.	RS.	RS.	RS.	RS.
South Canara	181	183	..	364	..	..	46	..	..	..
Malabar, North	56	350	..	406	..	53	..	10,562	530	4,320
Tinnevelly	15	..	14	1	..	7	..	7	..	..
Total ..	252	533	14	771	..	60	46	10,569	530	4,320
Total, Taungya Plantations, Presidency.	2,408	533	14	2,927	42	627	1,872	13,681	4,368	5,254
NORTHERN CIRCLE										
C.—Cultural Operations.										
Ganjám	20	233	..	253	1,574	..	1,643	..	..	..
Vizagapatam	..	20	..	20	41	9	223	18	..	..
Gódávari, Upper	829	..	..	829	118	425	2,162	608	..	145
Do. Lower	1,772	242	..	2,014	307	144	2,035	924	..	..
Kistna	1,392	1,068	..	2,460	1,523	485	3,284	1,844	7,488	18,954
Kurnool, East	140	24	140	24	611	382	8,471	382	..	..
Do. South	77	24	..	101	421	185	2,753	372	..	..
Do. West	630	579	..	1,209	4,388	..	4,808	..	..	..
Bellary	9,619	8,565	..	18,184	23,775	..	68,528	..	..	..
Anantapur	51,606	6,636	..	58,242	14,135	..	31,106	..	..	274
Total ..	66,085	17,391	140	83,336	46,893	1,630	1,25,013	4,148	7,488	19,373
CENTRAL CIRCLE.										
C.—Cultural Operations.										
Cuddapah, North	112	575	..	687	145	..	181	112	..	..
Do. East	88	215	..	303	360	..	492	* 163	..	..
Nellore	445	38	..	483	297	..	1,902	..	..	..
Chingleput	7,430	3,172	..	10,602	536	390	2,256	3,422	..	..
Arcot, North	1,071	..	..	1,071	..	60	174	419	..	..
Chittoor	80	68	..	148	74	110	188	231	..	..
Arcot, South	1,294	703	..	1,997	509	..	923	487	..	..
Salem, North	585	..	..	585	774	107	13,213	20,540	549	6,875
Do. South	216	230	..	446	683	90	1,270	721	15	76
Trichinopoly	* 1,883	120	60	1,943	325	..	388	3,517	..	..
Guntúr	1	..	..	1	2	..	32	..	..	..
Total ..	13,205	5,121	60	18,266	3,705	757	21,019	29,612	564	6,951
SOUTHERN CIRCLE.										
C.—Cultural Operations.										
South Canara	2	..	..	2	..	62	199	206	..	..
Malabar, North	139	..	..	139	..	72	..	6,282	..	..
Do. South	187	25	..	212	169	244	2,044	877	..	..
The Nilgiris	493	5	..	498	149	71	311	29,006	..	..
Kollegal	..	1,870	..	1,870	42	..	42	.	..	..
Coimbatore, North †	10,835	3,847	..	14,682	..	..	..	..	..	..
Do. Central	107	98	..	205	118	..	662	89	..	37
Do. South	473	..	..	473	171	517	1,358	893	..	..
Madura	748	120	..	868	497	..	2,741	470	106	106
Rámnád	451	78	..	529	121	..	657	..	..	..
Tinnevelly	1,370	420	..	1,790	396	25	2,687	96	..	..
Total ..	14,805	6,463	..	21,268	1,663	991	11,201	37,919	106	143
Total, Cultural Operations, Presidency.	94,095	28,975	200	122,870	52,261	3,378	1,57,233	71,679	8,158	26,467
Grand Total, Presidency Plantations, Taungya and Cultural Operations.	1,23,328	31,519	613	154,234	1,57,271	50,682	13,17,166	12,15,222	1,88,982	27,14,282

* Revised figures furnished by the Collector.

† Dibbling seeds in coupes done by subordinates free of cost.

ANNUAL

Forest Department,

OUTTURN (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
Ganjám.							
Reserved forests—							
Sâl	37,332	20	..	..	37,352	..	..
Miscellaneous	1,445	223	19,190	..	20,858	..	..
Total ..	38,777	243	19,190	..	58,210	322,690	10,423
Unreserved lands—							
Sâl	3,955	6,723	..	..	10,678	..	..
Miscellaneous	880	128,254	11,130	..	140,264	..	..
Total ..	4,835	134,977	11,130	..	150,942	..	107,030
Total, Ganjám ..	(*a*) 43,612	(*b*) 135,220	30,320	..	209,152	(*c*) 322,690	(*d*) 117,453
Vizagapatam.							
Reserved forests—							
Miscellaneous	1,711	401	560	..	2,672	86,891	76,367
Unreserved lands—							
Yegisi	374	..	..	..	374	..	..
Maddi	166	..	..	..	166	..	..
Miscellaneous	209	18,713	..	..	18,922	..	..
Total ..	749	18,713	..	..	19,462	..	57,715
Total, Vizagapatam ..	2,460	19,114	560	..	22,134	86,891	134,082
Upper Gódávari.							
Reserved forests—							
Teak	2,667	8,410	..	..	11,077	..	..
Yepi	3,205	..	..	..	3,205	..	..
Yegisi	144	..	..	..	144	..	..
Miscellaneous	1,128	1,000	..	..	2,128	..	..
Total ..	7,144	9,410	..	..	16,554	..	..
Unreserved lands—							
Teak	269	124	..	..	393	..	..
Yegisi	63	3,352	620	..	4,035	..	..
Maddi	..	5,519	6,090	..	11,609	..	..
Miscellaneous	1,599	26,503	18,171	..	46,273	..	..
Total ..	1,931	35,498	24,881	..	62,310	18,711	28,242
Total, Upper Gódávari ..	9,075	44,908	24,881	..	78,864	18,711	28,242
Lower Gódávari.							
Reserved forests—							
Teak	283	..	..	..	283	..	..
Yegisi	9	..	..	..	9	..	..
Maddi	162	..	..	..	162	..	..
Miscellaneous	2,782	..	..	..	2,782	..	..
Total ..	3,236	..	..	..	3,236	559,022	660
Unreserved lands—							
Yegisi	..	2,967	..	..	2,967	..	..
Maddi		20	..	..	20	..	..
Miscellaneous	165	174,480	3,048	..	177,693	..	..
Total ..	165	177,467	3,048	..	180,680	..	169,923
Total, Lower Gódávari ..	3,401	177,467	3,048	..	183,916	559,022	170,583

(*a*) Excludes 1020 cubic feet of Parlákimedi maliahs.
(*b*) Do. 1,718 do.
(*c*) Do. 40 do.
(*d*) Do. 19,260 do.

FORM No. 76.

Madras Presidency.

(in number) during the year 1910–1911, and Agency of Exploitation.

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	333,113	391,323	945,458	8,290	86,400	..	1,040,148
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	107,030	257,972	..	99,935	23,710	..	123,645
..	..	440,143	649,295	945,458	(*a*) 108,225	110,110	..	1,163,793
..	..	163,258	165,930	1,098,453	545,907	890	..	1,645,250
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	57,715	77,177	400	3,218	..	..	3,618
..	..	220,973	243,107	1,098,853	549,125	890	..	1,648,868
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	16,554	13,900	712,927	..	..	726,827
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	46,953	109,263	200	140,800	500	..	141,500
..	..	46,953	125,817	14,100	853,727	500	..	868,327
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	559,682*	562,918	20,900	59,000	..	..	79,900
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	169,923	350,603	2,000	6,746,376	..	..	6,748,376
..	..	729,605	913,521	22,900	6,805,376	..	..	6,828,276

(*a*) 15,200 bamboos of Parlákimedi maliahs.

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Kistna.							
Reserved forests—							
Miscellaneous	6,047	7,910	..	..	13,957	1,114,190	81,240
Reserved lands—							
Miscellaneous	840	..	..	..	840	..	10
Unreserved lands—							
Miscellaneous	1,485	69,941	3,899	..	75,325	..	88,682
Total, Kistna ..	8,372	77,851	3,899	..	90,122	1,114,190	169,932
Kurnool, East.							
Reserved forests—							
Teak	1,313	..	..	..	1,313	..	..
Yegi	3,155	..	..	..	3,155	..	..
Miscellaneous	3,777	..	..	..	3,777	..	..
Total ..	8,245	..	..	..	8,245	62,487	..
Unreserved lands—							
Miscellaneous	..	..	..	..	..	..	54,940
Total, Kurnool, East ..	8,245	..	..	..	8,245	62,487	54,940
Kurnool, South.							
Reserved forests—							
Teak	6,138	..	..	..	6,138	..	..
Maddi	3,699	..	..	..	3,699	..	..
Yegi	3,759	..	..	..	3,759	..	..
Yepi	481	..	..	..	481	..	..
Miscellaneous	30,457	26	3,456	..	33,939	..	..
Total ..	44,534	26	3,456	..	48,016	834,153	84
Unreserved lands—							
Miscellaneous	122	6,560	400	..	7,082	36,202	40,820
Total, Kurnool, South ..	44,656	6,586	3,856	..	55,098	870,355	40,904
Kurnool, West.							
Reserved forests—							
Teak	3,824	..	..	..	3,824	..	..
Yegi	9,856	..	..	..	9,856	..	..
Maddi	1,734	..	..	..	1,734	..	..
Miscellaneous	69,467	11,460	3,087	787	84,801	..	..
Total ..	84,881	11,460	3,087	787	100,215	806,677	..
Unreserved lands—							
Miscellaneous	..	3,840	..	..	3,840	..	132,320
Total, Kurnool, West ..	84,881	15,300	3,087	787	104,055	806,677	132,320
Bellary.							
Reserved forests—							
Miscellaneous	10,113	..	527	..	10,640	299,321	..
Leased forests—							
Teak	675	..	..	..	675	625	..
Unreserved lands—							
Miscellaneous	1,365	90,740	4,346	..	96,451	3,240	159,027
Total, Bellary ..	12,153	90,740	4,873	..	107,766	303,186	159,027
Anantapur.							
Reserved forests—							
Miscellaneous	1,438	8,565	1,170	..	11,173	123,921	6,840
Unreserved lands—							
Miscellaneous	2,409	208,260	315	..	210,984	354,696	52,562
Total, Anantapur ..	3,847	216,825	1,485	..	222,157	478,617	59,402

(in number) during the year 1910-1911, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders	Total.
9	10	11	12	13	14	15	16	17
	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	1,195,430	1,209,387	40,225	156,710	..	..	196,935
..	..	10	850	..	..	..	..	..
..	..	*88,682	164,007	..	..	..	..	..
..	..	1,284,122	1,374,244	40,225	156,710	..	..	196,935
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	62,487	70,732	296,780	..	..	..	296,780
..	..	54,940	54,940	..	..	..	..	..
..	..	117,427	125,672	296,780	..	..	..	296,780
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	834,237	882,253	933,290	..	..	..	933,290
..	..	77,022	84,104	14,600	..	..	..	14,600
..	..	911,259	966,357	94,8790	..	..	..	947,890
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	961,183	1,061,398	3,370,898	4,920	10,100	12,293	3,398,211
..	..	132,320	136,160	..	..	..	..	..
..	154,506	1,093,503	1,197,558	3,370,898	4,920	10,100	12,293	3,398,211
..	..	299,321	309,961	..	..	..	..	..
..	..	625	1,300	11,200	..	..	..	11,200
..	..	162,267	258,718	..	3,212	..	..	3,212
..	..	462,213	569,979	11,200	3,212	..	..	14,412
..	..	130,761	141,934	19,219	..	..	..	19,219
..	..	407,258	618,242	..	3,104	..	..	3,104
..	..	538,019	760,176	19,219	3,104	..	..	22,323

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
							ABS
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Reserved forests, Reserved lands and Unreserved lands—							
Sal (*Shorea robusta*)	41,287	6,743	..	..	48,030	..	..
Teak (*Tectona grandis*) ..	15,169	8,534	..	..	23,703	..	..
Yegisi (*Pterocarpus marsupium*).	17,360	6,319	620	..	24,299	..	..
Yepi (*Hardwickia binata*) ..	3,686	..	..	..	3,686	..	..
Maddi (*Terminalia tomentosa*).	5,761	5,539	6,090	..	17,390	..	..
Miscellaneous	137,439	756,876	69,299	787	964,401	..	..
Grand Total ..	220,702	784,011	76,009	787	1,081,509	4,622,826	1,066,885
CENTRAL CIRCLE.							
North Cuddapah.							
Reserved forests—							
Miscellaneous	16,931	21,770	1,300	..	40,001	655,779	261,667
East Cuddapah.							
Reserved forests—							
Miscellaneous	19,873	100	819	..	20,792	923,487	..
Unreserves—							
Miscellaneous	..	5,805	..	..	5,805	..	19,035
Total, East Cuddapah ..	19,873	5,905	819		26,597	923,487	19,035
Nellore.							
Reserved forests—							
Miscellaneous	3,963	3,278	500	..	7,741	669,844	203,177
Unreserved lands—							
Miscellaneous	..	66,369	9,346	..	75,715	..	15,120
Total ..	3,963	69,647	9,846	..	83,456	669,844	218,297
Chingleput.							
Reserved forests—							
Miscellaneous	2,280	2,514	..	..	4,794	116,892	1,125
Unreserved lands—							
Miscellaneous	..	97,738	13	..	* 97,751	..	68,154
Total ..	2,280	100,252	13	..	102,545	116,892	69,279
North Arcot.							
Reserved forests—							
Sandalwood	5,520	..	..	..	..	..	..
Miscellaneous	† 2,839	..	..	..	..	..	..
Total ..	8,359	..	816	..	9,175	1,006,613	98,040
Unreserved lands—							
Miscellaneous	..	104,580	..	..	104,580	..	134,540
Total, North Arcot ..	8,359	104,580	816	..	113,755	1,006,613	232,580
Chittoor.							
Reserved forests—							
Red sanders	3,060	..	..	..	..	..	..
Sandalwood	536	..	..	..	..	..	..
Miscellaneous	1,206	..	..	..	..	..	..
Total ..	4,802	906	..	..	5,708	642,681	26,352
Unreserved lands—							
Miscellaneous	..	33,346	578	..	33,924	..	36,120
Total, Chittoor ..	4,802	34,252	578	..	39,632	642,681	62,472

* This excludes 233 palm trees for which cubic feet were not furnished by the Collector.
† Includes 1,214 cubic feet of agricultural implements.

(in number) during the year 1910–1911, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
TRACT.								
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	5,844,217	6,925,726	6,767,523	8,484,399	121,600	12,293	15,385,815
..	..	917,446	957,447	21,612	239,980	2,000	..	263,592
48,821	..	972,308	993,100	1,182	1,165,110	..	..	1,166,292
..	..	19,035	24,840	..	..	..	..	..
48,821	..	991,343	1,017,940	1,182	1,165,110	..	..	1,166,292
2,620	..	875,641	883,382	..	..	..	..	..
..	..	15,120	90,835	..	7,940	..	..	7,940
2,620	..	890,761	974,217	..	7,940	..	..	7,940
..	..	118,017	122,811	..	65,880	..	..	65,880
..	..	68,154	165,905	..	..	90	..	90
..	..	186,171	288,716	..	65,880	90	..	65,970
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,104,653	1,113,828	13,920	8,401,440	12,350	..	8,427,710
..	..	134,540	239,120	..	..	..	..	..
..	..	1,239,193	1,352,948	13,920	8,401,440	12,350	..	8,427,710
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	669,033	674,741	184,177	577,200	2,900	..	764,277
..	..	36,120	70,044	..	211	..	..	211
..	..	705,153	744,785	184,177	577,411	2,900	..	764,488

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
CENTRAL CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
South Arcot.							
Reserved forests—							
Miscellaneous	4,925	692	..	..	5,617	579,057	146,807
Unreserved lands—							
Miscellaneous	..	41,458	20,485	.	61,943	..	139,748
Total, South Arcot ..	4,925	42,150	20,485	..	67,560	579,057	286,555
North Salem.							
Reserved forests—							
Sandalwood	1,226	..	..	..	..	..	..
Miscellaneous	8,654	..	..	..	..	..	..
Total ..	9,880	..	..	..	9,880	206,785	..
Unreserved lands—							
Miscellaneous	1559	93,288	632	..	95,479	57,409	70,538
Total, North Salem ..	11,439	93,288	632	..	105,359	264,194	70,538
South Salem.							
Reserved forests—							
Sandalwood	8	..	..	..	..	..	..
Miscellaneous	2,925	..	..	..	..	..	..
Total ..	2,933	..	1,130	..	4,063	250,035	192
Unreserved lands—							
Miscellaneous	261	143,567	2,990	..	146,818	..	151,519
Total, South Salem ..	3,194	143,567	4,120	..	150,881	250,035	151,711
Trichinopoly cum *Tanjore.*							
Reserved forests—							
Miscellaneous	16	..	..	..	16	240,477	2,096,588
Unreserved lands—							
Miscellaneous	..	159,722	1,800	..	161,522	73,126	1,165,994
Total, Trichinopoly *cum* Tanjore ..	16	159,722	1,800	..	161,538	313,603	3,262,582
Guntúr.							
Reserved forests—							
Miscellaneous	23,774	1,072	592	..	25,438	440,940	10,512
Unreserved lands—							
Miscellaneous	1,207	316,928	6,656	..	324,791	50,150	10,864
Total, Guntúr ..	24,981	318,000	7,248	..	350,229	491,090	21,376

ABS

Reserved Forests.							
Red sanders	3,060	..	..	..	..	..	..
Sandalwood	7,290	..	..	..	..	..	..
Miscellaneous	87,386	..	..	..	..	..	..
Total ..	97,736	30,332	5,157	..	133,225	5,732,590	2,844,460
Unreserved lands—							
Miscellaneous	3,027	1,062,801	42,500	..	1,108,328	180,685	1,811,632
Red sanders	3,060	..	..	..	..	..	..
Sandalwood	7,290	..	..	..	..	..	..
Miscellaneous	90,413	..	..	..	..	..	..
Grand Total ..	100,763	1,093,132	47,657	..	1,241,553	5,913,275	4,656,092

(in number) during the year 1910–1911, and Agency of Exploitation —*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.		C. FT.	C. FT.	NO.	NO.	NO.		NO.
800	..	726,664	732,281	2,677	11,913	..	..	14,590
795	..	140,543	202,486	..	376	..	..	376
1,595	..	867,207	934,767	2,677	12,289	..	..	14,966
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	206,785	216,665	208,543	4,467,975	..	..	4,676,518
..	..	127,947	223,426	630	128,450	..	..	129,080
..	..	334,732	440,091	209,173	4,596,425	..	..	4,805,598
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	250,227	254,290	..	2,718,225	11,075	..	2,729,300
..	..	151,519	298,337	..	105,550	..	..	105,550
..	..	401,746	552,627	..	2,823,775	11,075	..	2,834,850
..	..	2,337,065	2,337,081	57,310	6,516	..	..	63,826
..	..	1,239,120	1,400,642	..	2,035	..	..	2,035
..	..	3,576,185	3,737,723	57,310	8,551		..	65,861
..	..	451,452	476,890	..	..	..	..	..
..	..	61,014	385,805	2,037	..	..	..	2,037
..	..	512,466	862,695	2,037	..	..	..	2,037

TRACT.

..	..	..	..	..	..	..	..	..
..	..	..	..		..	..	..	..
	..	..	..	..	..	..	..	..
52,241	..	8,629,291	8,762,516	489,421	17,654,239	28,325	..	18,171,985
795	..	1,993,112	3,101,440	2,667	244,562	90	.	247,319
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
	..	..	..		..	..		..
53,036	..	10,622,403	11,863,956	492,088	17,898,801	28,415	..	18,419,304

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
South Canara.							
Reserved forests—							
Teak (*Tectona grandis*) ..	2,559	75	..	..	2,634	..	..
Rosewood (*Dalbergia latifolia*).	153	..	..	..	153	..	..
Pterocarpus Marsupium	175	..	..	..	175	..	..
Ironwood (*Xylia dolabriformis*).	5,090	..	..	..	5,090	..	..
Hopea parviflora	322	..	..	..	322	..	..
Sandalwood (*Santalum album*).	1	..	..	..	1	..	..
Miscellaneous	18,554	15,392	..	..	33,946	..	..
Total ..	26,854	15,467	..	..	42,321	489,446	427,065
Reserved lands—*Nil.*							
Unreserved lands—							
Teak (*Tectona grandis*) ..	..	500	150	1,325	1,975	..	..
Sandalwood (*Santalum album*).	..	630	..	..	630	..	..
Rosewood (*Dalbergia latifolia*).	39	..	..	425	464	..	..
Pterocarpus Marsupium ..	..	25	..	125	150	..	..
Ironwood (*Xylia dolabriformis*)	..	25	..	1,100	1,125	..	..
Hopea parviflora	1	4,016	775	44,575	49,367	..	..
Miscellaneous	328	24,557	2,700	16,425	44,010	..	..
Total ..	368	29,753	3,625	63,975	97,721	..	547,328
Total, South Canara ..	27,222	45,220	3,625	63,975	140,042	489,446	974,393
Malabar, North.							
Reserved forests—							
Teak (*Tectona grandis*) ..	8,634	7,491	..	..	16,125	..	..
Rosewood (*Dalbergia latifolia*).	5,613	2,502	..	..	8,115	..	..
Pterocarpus Marsupium ..	5,934	5,705	..	..	11,639	..	..
Lagerstræmia microcarpa ..	1,506	1,526	..	..	3,032	..	..
Terminalia tomentosa	8,164	1,727	..	..	9,891	..	..
Miscellaneous	197	750	..	..	947	..	..
Total ..	30,048	19,701	..	..	49,749	6,040	680
Reserved lands—*Nil.*							
Unreserved lands—							
Miscellaneous	..	..	620	..	620	..	..
Total, Malabar, North ..	30,048	19,701	620	..	50,369	6,040	680
Malabar, South.							
Reserved forests—							
Teak (*Tectona grandis*) ..	3,353	5,250	..	..	8,603	..	..
Ironwood (*Xylia dolabriformis*).	42	..	..	..	42	..	..
Terminalia tomentosa	..	40	..	..	40	..	..
Miscellaneous	216	91	..	..	307	..	..
Total ..	3,611	5,381	..	..	8,992	2,805	135
Reserved lands—							
Miscellaneous	1,031	..	..	..	1,031	..	..
Unreserved lands—							
Rosewood (*Dalbergia latifolia*).	..	21	..	..	21	..	..
Ironwood (*Xylia dolabriformis*).	133	215	..	..	348	..	..
Miscellaneous	240	..	..	..	240	..	..
Total ..	373	236	..	..	609	..	205
Leased forests—							
Teak (*Tectona grandis*) ..	91,227	3,770	..	..	94,997	..	..
Rosewood (*Dalbergia latifolia*).	141	52	..	..	193	..	..
Pterocarpus Marsupium ..	..	52	..	..	52	..	..
Ironwood (*Xylia dolabriformis*).	219	5,460	..	..	5,679	..	..
Terminalia tomentosa	80	4,680	..	..	4,760	..	..
Miscellaneous	529	3,328	..	..	3,857	..	..
Total ..	92,196	17,342	..	..	109,538	2,180	..
Total, Malabar, South ..	97,211	22,959	..	..	120,170	4,985	340

(in number) during the year 1910–1911, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	916,511	958,832	7,785	59,472	500	..	67,757
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	547,328	645,049	..	31,603	..	..	31,603
..	..	1,463,839	1,603,881	7,785	91,075	500	..	99,360
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	6,720	56,469	17,064	15,288	..	..	32,352
..	..	..	620	..	..	50	..	50
..	..	6,720	57,089	17,064	15,288	50	..	32,402
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	2,940	11,932	15,718	12,330	..	..	28,048
..	..	..	1,031	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
	..	205	814	..	..	30	..	30
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	2,180	111,718	55,476	32,955	..	..	88,430
..	..	5,325	125,495	71,193	45,285	30	..	116,508

Outturn (in cubic feet solid) of Timber, Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
The Nilgiris.							
Reserved forests—							
Pterocarpus Marsupium ..	..	142	..	..	142	..	..
Red cedar (*Cedrela Toona*) ..	..	40	..	..	40	..	..
Terminalia tomentosa	..	9	..	..	9	..	..
Sandalwood (*Santalum album*).	353	..	..	..	353	..	..
Miscellaneous	..	201	..	..	201	..	..
Total ..	353	392	..	..	745	204,236	14,402
Reserved lands—							
Teak (*Tectona grandis*).. ..	12,275	..	..	..	12,275	..	..
Pterocarpus Marsupium ..	1,501	..	..	..	1,501	..	..
Rosewood (*Dalbergia latifolia*).	197	..	..	..	197	..	..
Miscellaneous	..		674	..	674		..
Total ..	13,973	..	674	..	14,647	..	100
Unreserved lands—*Nil.*	..	..	..	..	..	..	..
Total, The Nilgiris ..	14,326	392	674	..	15,392	204,236	14,502
Kollegal.							
Reserved forests—							
Sandalwood (*Santalum album*).	1,586	..	..	..	1,586	..	..
Teak (*Tectona grandis*) ..	99	..	..	..	99	..	..
Pterocarpus Marsupium ..	9	..	..	..	9	..	..
Rosewood (*Dalbergia latifolia*).	109	..	..	..	109	..	..
Terminalia tomentosa	458	..	..	..	458	..	..
Miscellaneous	4,056	407	..	..	4,463	..	..
Total ..	6,317	407	..	..	6,724	167,000	400
Reserved lands—							
Sandalwood (*Santalum album*).	300	..	..	..	300	..	..
Unreserved lands—							
Miscellaneous	516	..	320	..	836	..	..
Total, Kollegal ..	7,133	407	320	..	7,860	167,000	400
Coimbatore, North.							
Reserved forests—							
Sandalwood (*Santalum album*).	3,534	..	..	..	3,534	..	..
Teak (*Tectona grandis*) ..	57	..	..	..	57	..	..
Miscellaneous	4,891	636	..	..	5,527	..	..
Total ..	8,482	636	..	..	9,118	397,360	2,356
Reserved lands—*Nil.*	..	..	..	..	..	..	..
Unreserved lands—							
Miscellaneous	..	..	180	..	180	..	..
Total, Coimbatore, North ..	8,482	636	180	..	9,298	397,360	2,356
Coimbatore, Central.							
Reserved forests—							
Teak (*Tectona grandis*).. ..	348	..	...	..	348	..	..
Ironwood (*Xylia dolabriformis*).	79	..	..	..	79	..	..
Pterocarpus Marsupium ..	189	..	..	..	189	..	..
Lagerstræmia microcarpa ..	42	..	..	..	42	..	..
Mahagony (*Swietenia mahagoni*)	48	..	..	..	48	..	..
Miscellaneous	2,551	12,163	..	..	14,714	..	..
Total ..	3,257	12,163	..	..	15,420	272,344	254,172
Reserved lands—*Nil.*	..	..	..	..	..	..	..
Unreserved lands—							
Miscellaneous	..	56,328	1,465	..	57,793	..	232,808
Total, Coimbatore, Central ..	3,257	68,491	1,465	..	73,213	272,344	486,980

(in number) during the year 1910-1911, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	218,638	219,383	..	306,277	..	..	306,277
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,160	..	1,260	15,907	..	..	3,037	..	3,037
..	..	..	..	..	..	..	..	..
1,160	..	219,898	235,290	..	306,277	3,037	..	309,314
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	167,400	174,124	69,536	413,600	8,600	..	491,736
.	..	..	300	..	19,200	..	..	19,200
..	.	..	836	..	..	..	..	..
..	..	167,400	175,260	69,536	432,800	8,600	..	510,936
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	399,716	408,834	4,560	3,237,420	160	..	3,242,140
.	..		..	..	..	..	.	..
..	..	..	180	..	..	..	..	..
..	..	399,716	409,014	4,560	3,237,420	160	..	3,242,140
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	526,516	541,936	..	683,103	..	..	683,103
..	..	..	..	..	..	..	..	..
..	..	232,808	290,601	..	11,800	..	..	11,800
..	..	759,324	832,537	..	694,903	..	..	694,903

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
Coimbatore, South.							
Reserved forests—							
Teak (*Tectona grandis*) ..	31,996	..	..	..	31,996	..	..
Terminalia tomentosa	16,840	..	..	..	16,840	..	..
Ironwood (*Xylia dolabriformis*).	308	..	..	..	308	..	..
Pterocarpus Marsupium ..	1,780	..	.	..	1,780	..	..
Lagerstræmia microcarpa ..	1,465	..	..	..	1,465	..	..
Rosewood (*Dalbergia latifolia*).	1,716	..	..	..	1,716	..	..
Miscellaneous	16,778	75	412	..	17,265	..	..
Total ..	70,883	75	412	..	71,370	173,676	55
Unreserved lands—							
Miscellaneous	..	74	..		74	..	138
Total, Coimbatore, South ..	70,883	149	412	..	71,444	173,676	193
Madura.							
Reserved forests—							
Teak (*Tectona grandis*) ..	254	..	45	..	299	..	..
Pterocarpus Marsupium ..	7	..	..	..	7	..	..
Rosewood (*Dalbergia latifolia*).	9	..	..	..	9	..	..
Miscellaneous	1,557	35,277	4,228	..	41,062	..	..
Total ..	1,827	35,277	4,273	..	41,377	720,491	352,985
Unreserved lands—							
Miscellaneous	788	100,041	..	..	100,829	313,436	497,324
Total, Madura ..	2,615	135,318	4,273	..	142,206	1,033,927	850,309
Ramnad.							
Reserved forests—							
Miscellaneous	..	7,699	..	..	7,699	..	1,176
Reserved lands	..	..	..	..	..	..	6,371
Unreserved lands—							
Miscellaneous	..	22,286	360		22,646	..	36,066
Total, Ramnad ..	..	29,985	360	..	30,345	..	43,613
Tinnevelly.							
Reserved forests—							
Pterocarpus Marsupium ..	383	..	..	..	383	..	..
Vitex altissima	220	..	..	..	220	..	..
Miscellaneous	961	29,059	..	..	30,020	..	..
Total ..	* 1,564	29,059	..	..	30,623	22,297	416,646
Reserved lands—*Nil.*							
Unreserved lands—							
Miscellaneous	..	11,414	8,180	..	19,594	5,629	101,828
Total, Tinnevelly ..	* 1,564	40,473	8,180	..	50,217	27,926	518,474
							ABS
Reserved forests—							
Teak (*Tectona grandis*) ..	47,300	12,816	45	..	60,161	..	..
Pterocarpus Marsupium ..	8,477	5,847	..	..	14,324	..	..
Rosewood (*Dalbergia latifolia*).	7,600	2,502	..	..	10,102	..	..
Sandalwood (*Santalum album*).	5,474	..	..	..	5,474	..	..
Lagerstræmia microcarpa ..	3,013	1,526	..	..	4,539	..	..
Ironwood (*Xylia dolabriformis*).	5,519	.	..	..	5,519	..	..
Hopea parviflora	322	..	..	..	322	..	..
Terminalia tomentosa	25,462	1,776	..	..	27,238	..	..
Red cedar (*Cedrela Toona*) ..	..	40	..		40	..	..
Mahagony (*Swietenia Mahagoni*).	48	..	..	..	48	..	..
Vitex altissima	220	..	..	..	220	..	..
Miscellaneous	49,761	101,750	4,640	..	156,151	..	..
Total ..	* 153,196	126,257	4,685	..	284,138	2,455,695	1,470,072

* Excludes 3,815 rafters, the cubical contents of which have not been reported.

(in number) during the year 1910–1911, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..			..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..		..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	173,731	245,101	7,298	210,325	2,349	..	219,972
..	..	138	212	..	..		..	..
..	..	173,869	245,313	7,298	210,325	2,349	..	219,972
..	..	.	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	2,500	1,075,976	1,117,363	79	174,656	..	..	174,735
..	..	810,760	911,589	..	..	..	..	..
..	2,500	1,886,736	2,028,942	79	174,656	..	..	174,735
..	..	1,176	8,875	..	..	..	..	..
..	..	6,371	6,371	..	..	..	..	..
..	..	36,066	58,712	..	..	..	..	..
..		43,613	73,958	..	..	..	..	..
..	..	..	..	..	..	.	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	438,943	469,566	..	1,640	..	..	1,640
966	..	108,423	128,017	..	105	..	..	105
966	..	547,366	597,583	..	1,745	..	..	1,745
TRACT.								
..	..	..	..	..	.	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..		..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	2,500	3,928,267	4,212,405	122,040	5,114,111	11,609	..	5,247,760

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
							ABS
SOUTHERN CIRCLE – *cont.*	C. FT.	C. FT.	C FT.	C. FT.	C. FT.	C. FT.	C. FT.
Reserved lands—							
Teak (*Tectona grandis*)	12,275	..	..	...	12,275	..	..
Pterocarpus Marsupium ..	1,501	..	..	..	1,501	..	..
Sandalwood (*Santalum album*).	300	..	..	..	300	..	..
Rosewood (*Dalbergia latifolia*).	197	..	..	..	197	..	..
Miscellaneous	1,031	..	674	..	1,705	..	..
Total ..	15,304	..	674	..	15,978	..	6,471
Unreserved lands—							
Teak (*Tectona grandis*) ..	..	500	150	1,325	1,975	..	..
Pterocarpus Marsupium ..	..	25	..	125	150	..	..
Rosewood (*Dalbergia latifolia*).	39	21	..	425	485	..	..
Sandalwood (*Santalum album*).	..	630	..	..	630	..	..
Ironwood (*Xylia dolabriformis*).	133	240	..	1,100	1,473	..	..
Hopea parviflora	1	4,016	775	44,575	49,367	..	..
Miscellaneous	1,872	214,700	13,825	16,425	246,822	..	..
Total ..	2,045	220,132	14,750	63,975	300,902	319,065	1,415,697
Leased forests—							
Teak (*Tectona grandis*).. ..	91,227	3,770	..	..	94,997	..	..
Pterocarpus Marsupium ..	..	52	..	..	52	..	..
Rosewood (*Dalbergia latifolia*).	141	52	..	..	193	..	..
Terminalia tomentosa	80	4,680	..	..	4,760	..	..
Ironwood (*Xylia dolabriformis*).	219	5,460	..	..	5,679	..	..
Miscellaneous	529	3,328	..	..	3,857	..	..
Total ..	92,196	17,342	..	..	109,538	2,180	..
Reserved forests, reserved lands and unreserved lands and leased forests Southern Circle—							
Teak (*Tectona grandis*) ..	150,802	17,086	195	1,325	169,408	..	..
Pterocarpus Marsupium ..	9,978	5,924		125	16,027	..	..
Rosewood (*Dalbergia latifolia*).	7,977	2,575	..	425	10,977	..	..
Sandalwood (*Santalum album*)	5,774	630	..	..	6,404	..	..
Lagerstræmia microcarpa ..	3,013	1,526	..	..	4,539	..	..
Ironwood (*Xylia dolabriformis*).	5,871	5,700		1,100	12,671	..	..
Hopea parviflora	323	4,016	775	44,575	49,689	..	..
Terminalia tomentosa ..	25,542	6,456	..	..	31,998	..	..
Red cedar (*Cedrela Toona*) .	..	40	..	..	40	..	..
Mahagony (*Swietenia mahagoni*)	48	..	..		48	..	..
Vitex altissima	220	..	..	..	220	..	..
Miscellaneous ..	53,193	319,778	19,139	16,425	408,535	..	..
Grand Total, Southern Circle .	262,741	363,731	20,109	63,975	710,556	2,776,940	2,892,240
Total, Presidency, Reserved forests, reserved lands and unreserved lands—							
Sal	41,287	6,743	..	..	48,030	..	..
Teak (*Tectona grandis*) ..	165,971	25,620	195	1,325	193,111	..	..
Red Sanders (*Pterocarpus marsupium*).	30,398	12,243	620	125	43,386	..	..
Yepi (*Hardwickia binata*) ..	3,686	..	..	..	3,686	..	..
Yaddi (*Terminalia tomentosa.*)	31,303	11,995	6,090	..	49,388	..	..
Rosewood (*Dalbergia latifolia*).	7,977	2,575	...	425	10,977	..	..
Sandal (*Santalum album*) ..	13,064	630	..	..	13,694	..	..
Lagerstroemia microcarpa ..	3,013	1,526	..	..	4,539	..	..
Ironwood (*Xylia dolabriformis*).	5,871	5,700	..	1,100	12,671	..	..
Hopea parviflora ..	323	4,016	775	44,575	49,689	..	..
Red cedar (*Cedrela toona*) ..	..	40	..	..	40	..	..
Mahagony (*Swietenia mahagoni*).	48	..	..	..	48	..	..
Vitex altissima	220	..	..	..	220	..	..
Miscellaneous	281,045	2,169,787	136,095	17,212	2,604,139	..	..
Grand Total, Presidency, Reserved forests, reserved lands and unreserved lands.	584,206	2,240,875	143,775	64,762	3,033,618	13,313,041	8,615,217

(in number) during the year 1910–1911, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
TRACT—*cont.*								
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,160	..	7,631	23,609	..	19,200	3,037	..	22,237
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
966	..	1,735,728	2,036,630	..	43,508	80	..	43,588
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	2,180	111,718	55,475	32,955	..	..	88,430
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,126	2,500	5,673,806	6,384,362	177,515	5,209,774	14,726	..	5,402,015
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
55,162	157,006	22,140,426	25,174,044	7,437,126	31,592,974	164,741	12,293	39,207,134

ANNUAL FORM No. 77.

Forest Department, Madras Presidency.

OUTTURN of Minor Forest Produce during the year 1910–1911.

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grants.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
		MDS.	RS.	RS.	RS.	RS.	RS.
Northern Circle.	Grazing and fodder grass ..	6,429	642	1,86,285	..	1,080	1,88,007
	Grass (thatch, korai, tharbi, etc.).	9,532	342	1,269	227	..	1,838
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	..	..	46,134	..	23,070	69,204
	Horns, honey, wax, resin, gum, skins, etc.	156	92	1,197	..	..	1,289
	Tangedu, vembadam, etc., barks and fibres.	..	..	93,630	3	..	93,633
	Plumbago, stone, gravel, earth, etc.	8,400	17	4,081	4	..	4,102
	Leaves for platters	..	..	209	..	..	209
	Manure leaves	..	..	669	..	..	669
	Date and palmyra leaves, stalks, etc.	..	..	224	..	..	224
	Miscellaneous (including tree-owner's fees).	152,128	3,877	92,763	43	500	97,183
	Total ..	176,645	4,970	(a)4,26,461	277	24,650	4,56,358
Central Circle.	Grazing and fodder grass ..	6,822	612	3,46,245	282	98	3,47,237
	Grass (thatch and korai, etc.).	6,302	2,376	947	..	..	3,323
	Tamarind, soapnuts, gallnuts, etc.	8,552	4,572	23,789	..	..	28,361
	Horns, honey, wax, gum, etc.	1,831	507	2,182	..	..	2,689
	Tangedu, vembadam, etc., barks.	301	791	23,333	..	..	24,124
	Mica stone, gravel, etc. ..	..	..	46,740	82	..	46,822
	Lac	..	..	..	..	..	..
	Manure, leaves, thorns, etc. ..	..	..	24,384	1	..	24,385
	Date, palmyra leaves, etc. ..	89	1	4,318	236	..	4,555
	Miscellaneous including tree-tapping and tree-owners' fees.	44,446	5,536	1,75,158	..	200	1,80,894
	Total ..	68,343	14,395	6,47,096	601	298	6,62,390
	Reserved forests.						
Southern Circle.	Grass and grazing	4,217	500	89,718	44	..	..
	Grass (thatch, korai, etc.) ..	..	..	876	354	..	..
	Dammer, turmeric, pepper, cardamoms, etc.	2	11	6,845	..	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	11,479	8,080	1,595	..	..	..
	Horns, honey, wax, gum, resin, skin, etc.	486	4,988	20	..	..	..
	Avaram, vembadam, etc., barks and fibres.	140	1	1,885	..	..	..
	Stones, gravel and earth ..	..	..	2,289	..	..	..
	Manure leaves, thorns, etc. ..	20	29	5,914	..	..	..
	Date and palmyra leaves ..	..	..	927	..	249	..
	Miscellaneous	123	60	32,424	..	..	..
	Total ..	16,467	13,669	1,42,493	398	249	1,56,809
	Reserved lands.						
	Grazing	..	..	..	..	568	..
	Grass (thatch, korai, etc.) ..	..	..	15	14	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	1	2	19	..	..	..
	Horns, honey, wax, gum, resin, skin, etc.	21	152	..	..	..	..
	Stones, gravel and earth ..	..	..	6	..	..	..
	Miscellaneous	..	..	475	..	..	..
	Total ..	22	154	515	14	568	1,251

(a) Excludes 706 rupees worth of minor produce belonging to the Parlâkimedi Maliahs and 328 rupees worth of minor produce belonging to the Thumba Mutta forests.

Outturn of Minor Forest Produce during the year 1910–1911—*cont.*

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grantees.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
Southern Circle—*cont.*	*Unreserved lands.*	MDS.	RS.	RS.	RS.	RS.	RS.
	Catechu	1,182	10,700	..	..	..	.
	Grass (thatch, korai, etc.)	..	..	4,924	..	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	..	..	4,256	..	..	..
	Horns, honey, wax, gum, resin, skin, etc.	52	194	372	..	..	..
	Avaram, vembadam, etc., barks and fibres.	..	..	1,199	..	..	..
	Stones, gravel and earth ..	..	..	16,502	..	6	..
	Manure leaves, thorns, etc. ..	..	..	1,920	..	..	..
	Date and palmyra leaves ..	..	..	1,702	31	..	..
	Miscellaneous	..	..	10,992	9	..	..
	Total ..	1,234	10,894	41,867	40	6	52,807
	Grand total ..	17,723	24,717	1,84,875	452	823	2,10,867
	Grand Total, Presidency ..						
	ABSTRACT.						
	Grazing and fodder grass ..	17,468	1,754	6,22,248	326	1,746	6,26,074
	Grass (thatch, korai, etc.) ..	15,834	2,718	8,031	595	..	11,344
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	20,032	12,654	75,793	..	23,070	1,11,517
	Horns, honey, wax, resin, gum, skin, etc.	2,546	5,933	3,771	..	..	9,704
	Tangedu, vembadam etc., barks and fibres.	441	792	1,20,047	3	..	1,20,842
	Mica stones, gravel and earth, etc.	8,400	17	69,618	86	6	69,727
	Leaves for plotters	..	..	209	..	..	209
	Dammer, turmeric, pepper, cardmoms, etc.	2	11	6,845	..	..	6,856
	Manure leaves, thorns, etc.	20	29	32,887	1	..	32,917
	Date and palmyra leaves, stalks, etc.	89	1	7,171	267	249	7,688
	Catechu	1,182	10,700	..	..	..	10,700
	Miscellaneous	196,697	9,473	3,11,812	52	700	3,22,037
	Grand Total, Presidency ..	262,711	44,082	12,58,432	1,330	25,771	13,29,615

ANNUAL FORM No. 78.

Forest Department, Madras Presidency.

ACCOUNT of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1910–1911.

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
TIMBER (CUBIC FEET).					
Northern Circle.					
Ganjám	48,826	(*g*) 43,612	92,438	(*h*) 41,219	(*i*) 51,219
Vizagapatam	1,756	2,460	4,216	3,629	587
Gódávari, Upper	21,365	9,075	30,440	13,193	17,247
Do. Lower	2,558	3,401	5,959	1,925	4,034
Kistna	1,260	8,372	9,632	9,107	525
Kurnool, East	24,458	8,245	32,703	11,897	20,806
Do. South	33,266	44,656	77,922	37,577	40,345
Do. West	26,747	84,881	111,628	74,677	36,951
Bellary	5,864	12,153	18,017	14,690	3,327
Anantapur	6,253	3,847	10,100	5,143	4,957
Total	172,353	220,702	393,055	213,057	179,998
Central Circle.					
Cuddapah, North	3,586	16,931	20,517	16,658	3,859
Do. East	4,507	19,873	24,380	17,225	7,155
Nellore	772	3,963	4,735	(*a*) 567 (*b*) 4,010 (*c*) 5	153
Chingleput	264	2,280	2,544	1,904	640
Arcot, North	6,622	8,359	14,981	6,728	8,253
Chittoor	4,109	4,802	8,911	4,443	4,468
Arcot, South	..	4,925	4,925	3,878	909 (*d*) 138
Salem, North	4,003	11,439	15,442	11,096	4,346
Do. South	1,559	3,194	4,744	3,789	955
Trichinopoly	174	16	190	154	36
Guntúr	3,646	24,981	28,627	23,540	5,087
Madras depots	..	924	924	744	180
Total	29,233	100,763 924	130,920	94,741	36,179
Southern Circle.					
South Canara	24,412	27,222	51,634	25,259 (*b*) 439 (*c*) 4,503	21,433
Malabar, North	55,556	30,048	85,604	59,523 (*b*) 612 (*c*) 3,828	21,641
Do. South	70,189	97,211	167,400	79,981 (*b*) 3,295 (*c*) 560	83,564
The Nilgiris	20,624	14,326	34,950	14,863	20,087
Kollegal	2,991	7,133	10,124	6,471	3,653
Coimbatore, North	4,349	8,482	12,831	9,432	3,399
Do. Central	14,496	3,257	17,753	2,401 (*c*) 13,031	2,321
Do. South	173,809	70,883	244,782	35,736 (*f*) 1,215	207,831
Madura	973	2,615	3,588	2,909	679
Tinnevelly	..	1,564	1,564	831	733
Total	367,489	262,741	630,230	264,889	365,341
Grand Total, Presidency	569,075	585,130	1,154,205	572,687	581,518

(*a*) Sold locally. (*b*) Used departmentally. (*c*) Written off.
(*d*) Represents dryage not written off. (*e*) Written off the accounts. (*f*) Includes deficits and the quantity written off.
(*g*) Excludes 3,456 c. ft. belonging to the Parlákimedi Maliahs.
(*h*) Do. 1,020 c. ft. do.
(*i*) Do. 2,436 c. ft. do.

N.B. (*Central Circle*).—The difference between the closing balance of the previous year and the opening balance of current year was due to the transfer of Kadiri Range to Northern Circle and to revised figures furnished by Collectors.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1910–1911—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
FUEL (CUBIC FEET).					
Northern Circle.					
Ganjám	20,587	322,690	343,277	307,957	35,320
Vizagapatam	83,684	86,891	170,575	148,756	21,819
Gódávari, Upper	16,767	18,711	35,478	15,560	19,918
Do. Lower	214,980	559,022	774,002	639,434	134,568
Kistna	162,701	1,114,190	1,276,891	1,186,967	89,924
Kurnool, East	5,619	62,487	68,106	26,502	41,604
Do. South	182,240	870,355	1,052,595	913,480	139,115
Do. West	505,439	806,677	1,312,116	1,041,180	270,936
Bellary	155,642	303,186	458,828	357,116	101,712
Anantapur	202,950	478,617	681,567	448,201	233,366
Total	1,550,609	4,622,826	6,173,435	5,085,153	1,088,282
Central Circle.					
Cuddapah, North	306,953	655,779	962,732	668,924	293,808
Do. East	248,135	923,487	1,171,622	864,669	306,953
Nellore	197,708	669,844	867,552	(a) 317,656 (b) 5,127 (c) 26,720 (e) 414,630 (f) 2,810 (g) 378	93,537 (d) 6,694
Chingleput	28,471	116,892	145,363	124,505	20,858
Arcot, North	77,976	1,006,613	1,084,589	906,917	177,672
Chittoor	165,231	642,681	807,912	781,455	26,457
Arcot, South	93,536	579,057	672,593	572,035 (b) 1,879 (c) 9,010 (h) 2,707	82,128 (d) 4,834
Salem, North	85,283	264,194	349,477	328,666	20,811
Do. South	16,362	250,035	266,397	222,039	44,358
Trichinopoly	(j) 108,749	313,603	422,352	409,148	13,204
Guntúr	572,339	491,090	1,063,429	801,213	262,216
Madras depots	(i) 57,800 22,686	189,310 554,616	247,110 577,302	246,810 558,074	300 19,228
Total	1,981,229	5,913,275 (i) 189,310 (j) 554,616	8,638,430	7,265,372	1,373,058
Southern Circle.					
South Canara	250,516	489,446	739,962	382,699 (b) 8,585 *(k) 16,916	331,762
Malabar, North	5,040	6,040	11,080	5,580 (k) 20	5,480
Do. South	405	4,985	5,390	666 (b) 9	4,715
The Nilgiris	267,907	204,236	472,143	319,790	152,353
Kollegal	132,808	167,000	299,808	147,448	152,360
Coimbatore, North	288,544 * + 62	397,360	685,966	568,616	117,350
Do. Central	114,934	272,344	387,278	303,966 (l) 18,572	64,740
Do. South	76,384	173,676	250,060	209,627 (l) 16,265	24,168
Madura	4,775	1,033,927	1,038,702	1,037,754	948
Tinnevelly	37	27,926	27,963	25,425	2,538
Total	1,141,412	2,776,940	3,918,352	3,061,938	856,414
Grand Total, Presidency	4,673,250	14,056,967	18,730,217	15,412,463	3,317 754

(*a*) Sold locally. (*b*) Used departmentally. (*c*) Written off. (*d*) Represents dryage not written off.
(*e*) Supplied to Madras depots. (*f*) Was burnt. (*g*) Supplied to boatmen for cooking.
(*h*) Was lost. (*i*) Produce received from Kurnool East. (*j*) Revised figure furnished by the Collector.
(*k*) Written off the accounts. (*l*) Includes deficits and the quantity written off.
* Added to opening balance by the Collectors.

N.B. (*Central Circle*).—The difference between the closing balance of the previous year and the opening balance of the current year was due to the transfer of Kadiri Range to Northern Circle and to revised figures furnished by Collectors.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1910–1911—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
BAMBOOS (NUMBER).					
Northern Circle.					
Ganjám	11,621	945,458	957,079	940,287	16,792
Vizagapatam	2,028	1,098,853	1,100,881	1,100,015	866
Gódávari, Upper	2,638	14,100	16,738	14,313	2,425
Do. Lower	50,896	22,900	73,796	51,678	22,118
Kistna	..	40,225	40,225	37,775	2,450
Kurnool, East	3,901	296,780	300,681	300,506	175
Do. South	70,591	947,890	1,018,481	1,000,186	18,295
Do. West	16,640	3,370,898	3,387,538	3,317,408	70,130
Bellary	..	11,200	11,200	9,672	1,528
Anantapur	10,264	19,219	29,483	12,856	16,627
Total	168,579	6,767,523	6,936,102	6,784,696	151,406
Central Circle.					
Cuddapah, North	19,471	21,612	41,083	34,691	6,392
Do. East	..	1,182	1,182	1,172	10
Nellore	1,000	..	1,000	1,000	..
Chingleput	..	..	..	..	..
Arcot, North	..	13,920	13,920	13,920	..
Chittoor	37,194	184,177	221,371	204,291	17,080
Arcot, South	600	2,677	3,277	1,374	1,903
Salem, North	48,908	209,173	258,081	227,525	30,556
Do. South	..	..	..	..	..
Trichinopoly	(*b*) 7,451	57,310	64,761	58,785	5,976
Guntúr	..	2,037	2,037	1,887	150
Madras depots	(*a*) 11,423 6,268	28,589 83,260	40,012 89,528	31,738 70,888	8,274 18,640
Total	132,315	492,088 (*a*) 28,589 (*b*) 83,260	736,252	647,271	88,981
Southern Circle.					
South Canara	5,075	7,785	12,860	2,604 (*c*) 1,037 (*d*) 2,760	6,459
Malabar, North	1,887	17,064	18,951	16,087 (*c*) 242 (*d*) 200	2,422
Do. South	27,648	71,193	98,841	41,694 (*c*) 2,270 (*d*) 1,548	53,229
Kollegal	13,440	69,536	82,976	48,568	34,408
Coimbatore, North	570	4,560	4,930	2,530	2,400
Do. South	4,188	7,298	11,486	11,446	40
Madura	..	79	79	79	..
Total	52,608	177,515	230,123	131,165	98,958
Grand Total, Presidency	353,502	7,548,975	7,902,477	7,563,132	339,345

(*a*) Produce received from Kurnool East.
(*b*) Revised figure furnished by the Collector.
(*c*) Used departmentally.
(*d*) Written off the accounts.

N.B. (*Central Circle*).—The difference between the closing balance of the previous year and the opening balance of the current year was due to the transfer of Kadiri Range to Northern Circle and to revised figures furnished by Collectors.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1910-1911—*cont.*

District.	Balance at commencement of the year in the forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance on hand at close of the year in forest and sale depots.
1	2	3	4	5	6
MINOR PRODUCE (MAUNDS OF 28 LB.).					
Northern Circle.					
Ganjám	..	59	59	..	59
Vizagapatam	4,081	9,666	13,747	5,098	8 649
Gódávari, Upper	7,960	21,202	29,162	3,120	26,042
Do. Lower	1,154	9	1,163	1,163	..
Kistna	82,063	132,489	214,552	159,567	54,985
Kurnool, East	..	1,773	1,773	421	1,352
Do. South	880	1,661	2,541	2,049	492
Do. West	465	2,489	2,954	1,593	1.361
Bellary	43,581	7,297	50,878	33,988	16,890
Anantapur	..	..	..	..	..
Total ..	140,184	176,645	316,829	206,999	109,830
Central Circle.					
Cuddapah, North	2,937	3,360	6,297	3,333	2,964
Do. East	550	4,681	5,231	2,968	1,263
Nellore	10,204	7,947	18,151	17,481	670
Chingleput	3,987	..	3,987	514	3,473
Arcot, North	307	1,049	1,356	226	1,130
Chittoor	1,755	1,841	3,596	2,672	924
Arcot, South	176	..	176	176	..
Salem, North	250	2,314	2,564	1,923	641
Do. South	250	399	649	360	289
Trichinopoly	18	108	126	106	20
Guntúr	20,121	43,764	63,885	18,273	45,612
Madras depots	104	2,880	2,984	2,956	28
Total ..	40,659	68,343	109,002	51,988	57,014
Southern Circle.					
South Canara	213	1,324	1,537	1,364 (*a*) 68 (*b*) 2	103
Malabar, North	22	2	24	24	* ..
Do. South	* ..	* ..	* ..	* ..	* ..
The Nilgiris	1,658	775	2,433	1,036	1,397
Kollegal	188	942	1,130	402	728
Coimbatore, North	4,020	10,431	14,451	11,021	3,430
Do. Central	19,179	4,124	23,303	5,063 (*c*) 7,386	10,854
Do. South	..	73	73	..	73
Ramnad	..	14	14	..	14
Tinnevelly	67	38	105	43	62
Tota ..	25,347	17,723	43,070	26,409	16,661
Grand Total, Presidency ..	206,190	262,711	468,901	285,396	183,505

N.B. (*Central Circle*).—The difference between the closing balance of the previous year and the opening balance of the current year was due to the transfer of Kadiri Range to Northern Circle and to revised figures furnished by Collectors.

* Less than one quarter.

(*a*) Used departmentally.

(*b*) Written off the accounts.

(*c*) Includes deficits and the quantity written off.

Annual Form No. 79.

Forest Department, Madras Presidency.

Statement showing the value of Timber and other Produce at sale depots for 1910–1911.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value:-	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Northern Circle.			Rs.			Rs.	Rs.	Rs.
Ganjám (*a*)	Timber	..	48,826	22,194	..	51,219	35,385	13,191	..
	Fuel	..	20,587	457	..	35,320	26,338	25,881	..
	Bamboos ..	11,621	..	157	(*c*) 16,792	..	414	257	..
	Minor produce ..	..	..	..	MDS. 59	..	..	..	..
Vizagapatam.	Timber	..	1,756	1,267	..	587	501	..	766
	Fuel	..	83,684	558	..	21,819	818	260	..
	Bamboos ..	2,028	..	30	866	..	9	..	21
	Minor produce ..	MDS. 4,081	..	489	MDS. 8,649	..	292	..	197
Gódávari, Upper.	Timber	..	21,365	4,453	..	17,247	4,485	32	..
	Fuel	..	16,767	931	..	19,918	1,107	176	..
	Bamboos ..	2,638	..	38	2,425	..	35	..	3
	Minor produce ..	MDS. 7,960	..	1,475	MDS. 26,042	..	403	..	1,072
Gódávari, Lower.	Timber	..	2,558	161	..	4,034	..	..	161
	Fuel	..	214,980	11,197	..	134,568	(*a*)	..	11,197
	Bamboos ..	50,896	..	102	22,118	..	(*a*)	..	102
	Minor produce ..	MDS. 1,154	..	300	..	..	(*a*)	..	300
Kistna ..	Timber	..	1,260	20	..	525	..	..	20
	Fuel	..	162,701	708	..	89,924	(*a*)	..	708
	Bamboos ..	..	..	..	2,450	..	(*a*)	..	..
	Minor produce ..	MDS. 82,063	..	397	MDS. 54,985	..	(*a*)	..	397
Kurnool, East.	Timber ..	..	..	..	..	20,806	15,604	15,604	..
	Fuel	..	..	..	..	41,604	1,011	1,011	..
	Bamboos ..	..	..	..	175	..	5	5	..
	Minor produce ..	..	..	..	MDS. 1,352	..	450	450	..
Kurnool, South.	Timber	..	33,266	34,318	..	40,345	41,621	7,303	..
	Fuel	..	132,240	10,630	..	139,115	8,115	..	2,515
	Bamboos ..	70,591	..	2,950	18,295	..	764	..	2,186
	Minor produce ..	MDS. 432,208	..	287	MDS. 492	..	160	..	127
Kurnool, West.	Timber ..	..	26,747	13,373	..	36,951	18,475	5,102	..
	Fuel	..	505,439	31,464	..	270,936	16,934	..	14,530
	Bamboos ..	16,640	..	140	70,130	..	877	737	..
	Minor produce ..	MDS. 521	..	652	MDS. 1,361	..	1,871	1,219	..
Bellary ..	Timber ..	..	5,864	366	..	3,327	209	..	157
	Fuel	..	155,642	10,495	..	101,712	2,618	..	7,877
	Bamboos ..	..	..	..	1,528	..	101	..	101
	Minor produce ..	MDS. 43,581	..	3,942	MDS. 16,890	..	5,052	1,110	..
Anantapur ..	Timber ..	..	6,253	1,954	..	4,957	1,542	..	412
	Fuel	..	202,950	11,275	..	233,366	12,965	1,690	..
	Bamboos ..	10,264	..	641	16,627	..	1,039	398	..
	Central Circle.								
North Cuddapah.	Timber	12,909	3,227	4,522	11,688	2,992	4,886	364	..
	Fuel	..	69,483	5,923	..	12,502	788	..	5,135
	Bamboos ..	15,531	..	475	6,317	..	94	..	381
	Minor produce ..	..	400	135	..	800	103	..	32
East Cuddapah.	Timber	..	4,507	4,219	..	7,155	2,725	..	1,494
	Fuel	..	(*b*) 201,248	(*b*) 6,552	..	180,444	4,337	..	2,215
	Bamboos ..	..	..	..	10	..	(*c*)	..	..
	Minor produce ..	..	(*b*) 483	74	..	1,263	105	31	..

(*a*) Not furnished by the Collectors.
(*b*) Revised figures furnished by the Collector.
(*c*) Value below 8 annas.
(*d*) Excludes 610 sal logs of 3,456 c. ft. (value Rs. 1,512) belonging to the Parlákimedi Maliahs.
(*e*) Excludes 481 logs of 2,437 c. ft. (value Rs. 1,066) belonging to the Parlákimedi Maliahs.

Statement showing the value of Timber and other Produce at sale depots for 1910–1911—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Central Circle—cont.			Rs.			Rs.	Rs.	Rs.
Nellore ..	Timber	..	772	398	..	153	101	..	297
	Fuel	..	197,708	20,896	..	93,537	8,475	..	12,421
	Bamboos ..	1,000	..	13	..	..	..	..	13
	Minor produce ..	..	10,205	5,189	..	670	308	..	4,881
Chingleput.	Timber	..	264	49	..	640	120	71	..
	Fuel	..	29,212	4,129	..	20,858	3,217	..	912
	Minor produce ..	..	(*b*) 3,987	..	..	(*b*) 3,473	..	..	..
	Madras Depots—								
	Timber ..	..	..	..	180	180	34	34	..
	Fuel	..	22,886	6,562	..	19,228	4,908	..	1,654
	Bamboos ..	6,268	..	125	18,640	..	349	224	..
	Minor produce.	..	104	37	..	(*b*) 28	..	..	37
North Arcot.	Timber	3,621	2,962	17,255	2,487	4,473	38,882	21,627	..
	Fuel	..	27,202	1,524	..	36,826	2,064	540	..
	Bamboos ..	..	..	..	..	..	..	..	..
	Minor produce ..	..	151	101	..	81	61	..	40
Chittoor ..	Timber	..	3,424	1,186	..	4,234	1,588	402	..
	Fuel	..	112,987	6,454	..	16,497	2,062	..	4,392
	Bamboos ..	36,294	..	562	17,080	..	342	..	220
	Minor produce ..	..	1,754	1,015	..	203	126	..	889
South Arcot.	Fuel	..	6,683	1,412	..	2,880	536	..	876
	Bamboos ..	..	..	..	156	..	7	7	..
North Salem.	Timber	..	4,003	2,942	..	4,346	3,259	317	..
	Fuel	..	85,283	10,659	..	20,811	2,601	..	8,058
	Bamboos ..	48,908	..	960	30,556	..	599	..	361
	Minor produce ..	..	250	25	..	641	64	39	..
South Salem.	Timber	..	1,550	2,799	..	955	440	..	2,359
	Fuel	..	16,362	2,067	..	44,358	4,160	2,093	..
	Minor produce ..	..	250	5	..	289	6	1	..
Trichinopoly.	Timber	..	174	314	..	20	5	..	309
	Fuel	..	(*a*) 56,020	3,502	..	1,646	103	..	3,399
	Bamboos ..	(*a*) 5,778	..	361	5,406	..	338	..	23
Guntúr ..	Timber	..	2,116	823	..	3,160	762	..	61
	Fuel	..	190,095	15,695	..	125,875	10,690	..	5,005
	Bamboos ..	..	..	..	150	..	9	9	..
	Minor produce ..	..	1,760	363	..	3,448	615	252	..
	Kurnool Fuel ..	..	57,800	5,003	..	300	28	..	4,975
	Do. Bamboos.	11,423	..	747	8,628	..	550	..	197
	Southern Circle.								
Canara, South.	Timber	..	7,062	4,978	..	3,657	2,795	..	2,178
	Fuel	..	60,819	6,872	..	57,125	6,396	..	476
	Bamboos ..	228	..	34	104	.	12	..	22
	Minor produce ..	QRS. 34	..	546	QRS. 30	..	226	..	320
Malabar, North.	Timber	..	55,556	29,082	..	21,641	8,347	..	20,735
	Fuel	..	5,040	244	..	5,480	462	218	..
	Bamboos ..	1,887	..	82	2,422	..	218	136	..
	Minor produce ..	QRS. 22	..	205	*..	..	47	..	158
Malabar, South.	Timber	..	70,189	81,480	..	83,564	1,00,528	19,048	..
	Fuel	..	405	8	..	4,715	230	222	..
	Bamboos ..	27,648	..	1,650	53,229	..	3,726	2,076	..
	Minor produce ..	*..	..	28	*..	..	13	..	15

(*a*) Revised figures furnished by the Collector. (*b*) Value not settled for want of demand.

N.B. (*Central Circle*).—The difference between the closing balance of the previous year and the opening balance of the current year was due to the transfer of Kadiri range to Northern Circle and to revised figures furnished by Collectors.

* Less than one-quarter.

Statement showing the value of Timber and other Produce at sale depots for 1910–1911—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Southern Circle—cont.								
				Rs.			Rs.	Rs.	Rs.
Nilgiris, The.	Timber	..	7,805	4,061	..	264	473	..	3,588
	Fuel	..	16,544	1,772	..	14,236	1,324	..	448
		Qrs.			Qrs.				
	Minor produce ..	12	.	331	3	..	49	..	282
Kollegal ..	Timber .. .	..	2,850	22,912	..	3,634	23,599	687	..
	Fuel	..	9,494	593	..	..	..	..	593
	Bamboos ..	5,507	..	80	17,790	..	204	124	..
		Qrs.			Qrs.				
	Minor produce ..	188		2,143	708	..	3,630	1,487	..
Coimbatore, North.	Timber	..	585	3,644	..	51	8	..	3,636
	Fuel	..	88	34	..	..	..	..	34
		Qrs.			Qrs.				
	Minor produce ..	4,020	..	5,191	3,420	..	3,303	..	1,888
Coimbatore, Central.	Timber	..	13,031	2,000	..	..	..	..	2,000
	Fuel	..	44,599	2,870	..	15,408	1,118	..	1,752
		Qrs.			Qrs.				
	Minor produce ..	19,179	..	3,441	10,853	..	1,738	..	1,703
Coimbatore, South.	Timber	..	41,214	76,620	..	75,280	100,645	24,025	..
	Fuel	.	2,293	168	..	1,124	76	..	92
	Bamboos ..	2,183	..	202	40	..	11	..	191
					Qrs.				
	Minor produce ..	..	..	..	78	..	270	270	..
Madura ..	Timber	..	973	225	..	679	170	..	55
	Fuel	..	4,775	412	..	948	95	..	317
					Qrs.				
Rámnád ..	Minor produce ..	..	..	..	14	..	52	52	..
Tinnevelly ..	Timber	..	..	..	..	733	55	55	..
	Fuel	..	37	5	..	2,538	127	122	..
	Minor produce ..	Qrs.			Qrs.				
		67	..	248	62	..	236	..	12
				Abstract.					
Northern Circle.	Timber	..	147,895	78,106	..	179,998	117,822	39,716	..
	Fuel	..	1,544,990	77,715	..	1,088,282	69,906	..	7,809
	Bamboos ..	164,678	..	4,058	151,406	..	3,244	..	814
		Mds.			Mds.				
	Minor produce ..	571,568	..	7,542	109,830	..	8,228	686	..
	Total value ..	..	..	1,67,421	..	..	1,99,200	31,779	..
Central Circle.	Timber	..	22,999	34,507	..	28,308	52,802	18,295	..
	Fuel	..	1,072,969	90,378	..	575,762	43,969	..	46,409
	Bamboos ..	125,202	..	3,243	86,943	..	2,288	..	955
		Mds.							
	Minor produce ..	19,344	..	6,944	10,896	..	1,388	..	5,556
	Total, value ..	..	..	1,35,072	..	..	1,00,447	..	34,625
Southern Circle.	Timber	..	199,265	2,24,997	..	189,503	2,36,620	11,623	..
	Fuel	..	144,094	12,978	..	101,574	9,828	..	3,150
	Bamboos ..	37,453	..	2,048	73,585	..	4,171	2,123	..
		Qrs.			Qrs.				
	Minor produce ..	23,522	..	12,133	15,163	..	9,564	..	2,569
	Total value ..	.	..	2,52,156	..	..	2,60,183	8,027	.
	Grand Total, Presidency.	..	..	554,649	..	..	559,830	5,181	..

ANNUAL FORM No. 80.

Forest Department, Madras Presidency.

SUMMARY of Revenue of the different districts, for the Forest year 1910–1911.

ANNUAL

Forest Department,

SUMMARY of Revenue of the different districts,

Northern

Budget heads, Receipts.	Direction.	Parlákimedi Maliahs.	Ganjám.	Vizagapatam.	Gódávari, Upper.	Gódávari, Lower.	Kistna.	Old West Kurnool.
1	2	3	4	5	6	7	8	9
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—								
(*a*) Timber	41	1,068	15,074	1,644	3,949	10	1,286	5,216
(*b*) Firewood and charcoal	62	4	7,005	8,535	1,451	34,058	54,768	11,322
(*c*) Bamboos	..	..	8,241	13,940	22	100	347	10,060
(*d*) Sandalwood	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce ..	3	..	332	360	1,615	33	101	950
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	..	205	9,249	1,361	5,590	20,314	4,701	663
(*b*) Firewood and charcoal	..	394	2,816	1,551	177	36,334	11,726	3,782
(*c*) Bamboos	..	65	815	3,702	7,873	6,963	853	
(*d*) Grazing and fodder grass ..	..	169	11,952	5,536	8,973	17,173	18,110	24,156
(*e*) Other produce	..	1,017	3,346	8,642	1,187	27,973	9,400	6,252
(*f*) Tree-owner's fees	..	..	753	244	..	5,283	9,837	9,043
(*g*) Other items	..	..	..	..	..	..	..	..
(*h*) Commutation fees	..	..	..		1,551		..	..
III. Confiscated drift and waifwood	..	56	231	53	703	6,214	198	203
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	
V. Miscellaneous—								
(*a*) Fines and forfeitures	..	549	1,932	1,962	283	2,404	4,518	5,429
(*b*) Other sources	73	—12	72	226	507	4,708	495	2,091
Total, Receipts ..	179	3,515	61,818	47,756	33,881	1,61,567	1,16,340	79,167

Budget heads.	Central Circle—*cont.*							
	Chingleput.	Chittoor.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Total.
	22	23	24	25	26	27	28	29
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—								
(*a*) Timber	376	398	3,906	39	6,784	2,161	19	52,331
(*b*) Firewood and charcoal	32,469	4,868	58,870	50,295	37,958	29,157	53,455	5,05,647
(*c*) Bamboos	..	1,184	562	117	3,755	..	1,787	7,754
(*d*) Sandalwood	..	60	15,186	25,974	20,072	2,348	25	63,665
(*e*) Grass and other minor produce ..	1,165	316	1,423	72	389	2	21	7,562
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	8,577	1,343	14,038	10,566	6,932	9,045	2,983	88,824
(*b*) Firewood and charcoal	7,653	2,237	13,556	31,774	1,711	6,347	58,513	1,61,501
(*c*) Bamboos	206	509	28,360	9,364	20,077	14,058	823	79,554
(*d*) Grazing and fodder grass ..	12,814	17,842	40,916	40,886	38,816	23,323	15,227	3,55,471
(*e*) Other produce	16,981	32,121	39,120	41,694	20,101	16,884	27,100	2,77,149
(*f*) Tree-owner's fees	3,949	1,791	7,592	2,352	1,699	237	309	28,481
(*g*) Other items	..		..	..	425	1,332	..	2,209
(*h*) Commutation fees	..	..	..	..	..	9,779	..	9,779
III. Confiscated drift and waifwood	73	192	188	323	73	98	30	1,983
IV. Revenue from forests not managed by Government.	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(*a*) Fines and forfeitures	4,067	3,371	26,431	21,777	5,648	9,125	21,918	1,15,251
(*b*) Other sources	715	140	1,116	998	1,426	3,079	1,989	13,121
Total, Receipts ..	89,045	65,872	2,51,264	2,36,231	1,65,866	1,26,975	1,91,199	17,70,282

FORM No. 80.

Madras Presidency.

for the Forest year 1910-1911.

Circle.							Central Circle.				
Old East Kurnool.	New West Kurnool.	New East Kurnool.	South Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, East.
10	11	12	13	14	15	16	17	18	19	20	21
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
5,757	12,508	4,229	3,990	912	1,289	56,973	..	2,957	323	18,766	16,602
8,752	23,004	1,509	13,811	12,209	25,009	2,01,499	..	47,189	1,11,328	33,084	47,474
4,218	23,855	5,956	14,426	416	1,003	82,584	..	—223	3	565	4
..	..	..	..	..	..	..	..	..	..	..	..
2,373	268	162	51	2,146	..	8,394	..	464	3,473	107	130
26	1,247	..	1,586	12,071	10,928	67,941	..	20,225	6,796	1,404	415
191	6,637	992	1,408	2,944	1,536	40,488	..	1,354	33,380	4,546	430
..	54	36	17	249	48	50,675	..	..	25	1,311	4,821
28,697	1,766	3,356	548	43,210	22,808	1,86,454	..	74,564	48,940	22,576	19,567
767	10,874	2,750	6,370	42,570	58,351	1,79,499	..	15,870	36,309	18,311	12,658
1,189	8,630	614	1,663	22,353	8,986	68,595	..	4,945	2,033	1,613	1,961
101	..	..	16	..	..	117	..	..	..	..	452
..	..	..	..	..	..	1,551	..	..	..	..	..
218	311	37	609	60	117	9,010	..	148	514	134	210
..	..	..	..	..	..	..	..	..	..	..	..
2,539	1,749	908	1,123	6,586	4,209	34,191	..	11,391	4,906	3,073	3,544
1,396	1,220	264	—234	73	1,089	11,968	15	2,292	320	464	567
56,224	92,123	20,813	45,384	1,45,799	1,35,373	9,99,939	15	1,81,176	2,47,850	1,05,954	1,08,835

Southern Circle.

Direction.	South Canara.	North Malabar.	South Malabar.	Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Madura.	Ramnad.	Tinnevelly.	Total.
30	31	32	33	34	35	36	37	38	39	40	41	42
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
230	5,337	20,997	82,253	8,258	641	577	1,571	29,760	68	..	576	1,50,268
..	34,846	373	74	23,289	4,602	13,567	21,265	8,254	72,233	..	1,424	1,79,927
..	208	1,426	2,918	..	913	9	..	650	..	..	..	6,124
57,310	2	..	..	5,170	2	26	..	..	—15	..	..	62,495
192	11,097	306	162	2,457	722	7,856	680	14	256	..	54	23,796
..	6,181	9,462	4,093	375	1,048	2,634	4,577	754	10,929	461	5,325	45,839
..	15,084	11	11	2,020	397	1,760	29,359	2,053	54,344	25,790	55,078	1,85,907
..	1,355	242	676	2,459	1,657	11,776	5,339	1,942	4,598	..	280	30,324
..	10,458	1,598	5	7,354	6,424	10,938	3,267	1,321	45,738	599	2,016	89,718
530	16,026	2,750	1,743	1,582	812	4,855	7,893	5,708	32,512	1,648	36,058	1,12,117
..	3,356	..	3	..	27	..	..	..	16	..	668	4,070
..	..	..	1	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..
..	1,150	720	4	48	144	181	539	110	513	256	970	4,635
..	..	..	..	..	..	..	..	..	..	..	..	..
..	4,727	103	477	652	3,086	5,294	5,707	1,436	19,187	1,901	6,497	49,067
14,010	7,132	5,685	2,134	5,573	1,119	3,567	825	13,698	1,786	178	1,274	57,431
72,272	1,16,959	43,673	94,554	59,237	21,594	63,040	81,022	65,700	2,42,165	* 30,888	1,10,670	10,01,719

* For six months from January 1911.

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 1*st September* 1911.

A. RAJAGOPALA AIYAR,
Assistant Accountant-General.

Northern Circle.

NOTE.—This statement excludes Rs. 20,965 under I (*b*) and Rs. 1,875 under I (*c*) realized in Guntúr by sale of fuel and bamboos of Kurnool since reported by the Conservator of Forests, Central Circle.

P. M. LUSHINGTON,
Conservator of Forests, Northern Circle.

Southern Circle.

NOTE.—The revenue under "Direction" is distributed as follows:—

I. (*a*) South Malabar, Rs. 230.
(*d*) Kollegal, Rs. 22,140 ; North Coimbatore, Rs. 35,170.
(*e*) North Malabar, Rs. 8 ; Tinnevelly, Rs. 184.

II. (*e*) South Coimbatore, Rs. 530.
V. (*b*) South Malabar, Rs. 1,000 ; South Coimbatore, Rs. 12,687 ; Direction, Rs. 323.

Forest Department, Madras

SUMMARY of Expenditure of the different

Budget heads.	Direction.	Parlákimedi Maliahs.	Ganjám.	Vizagapatam.	Gódávari, Upper.	Gódávari, Lower.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Refunds and drawbacks	..	..	126	— 18	144	374
A. Conservancy and Works.						
Timber and other produce removed from the forest by Government Agency—						
(*a*) Timber	2	600	3,050	309	327	..
(*b*) Firewood and charcoal.	49	..	5,613	5,071	1,149	12,042
(*c*) Bamboos	..	1	6,203	7,072	..	16
(*d*) Sandalwood	..	..	..	..	..	..
(*e*) Grass and other minor produce	..	..	693	13	685	23
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	1,593	6,033	4,630	4,141	11,396
III. Confiscated drift and waifwood.	..	1	13	..	33	1,452
V. Rent of leased forests and payments to share-holders in forests managed by Government	..	..	..	400	..	..
VI. Live-stock, stores, tools and plant—						
(*a*) Purchase of cattle ..	..	..	6,027	..	..	..
(*b*) Feed and keep of cattle.	..	..	1,868	978	1,254	..
(*c*) Stores, tools and plant.	591	870	2,381	270	1,473	4,962
VII. Communications and buildings—						
(*a*) Roads and bridges ..	5,103	90	5,209	482	976	3,699
(*b*) Buildings	5,520	55	10,081	1,960	6,135	3,900
(*c*) Other works	..	..	518	71	300	431
VIII. Demarcation, improvement and extension of forests—						
(*a*) Demarcation	..	471	3,548	258	5,174	666
(*b*) Cost of forest settlement; compensation for land and rights	..	..	101	..	104	5
(*c*) Surveys—						
(1) Local	358	3	1,347	..	3,248	360
(2) India	88	..	..	..	— 312	..
(*d*) Working plans	..	..	..	..	..	394
(*e*) Sowing and planting ..	6,270	294	3,226	50	748	5,128
(*f*) Protection from fire ..	..	..	3,001	2,259	9,437	2,113
(*g*) Other works	..	..	304	1	— 5	122
IX. Miscellaneous—						
(*a*) Law charges	..	..	..	..	..	..
(*b*) Other charges	651	..	14	2	1,528	512
Total, A. Conservancy and Works ..	18,632	3,978	59,356	23,808	36,539	47,695

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 1*st September* 1911.

Presidency, Northern Circle.

districts for the Forest year 1910–1911.

Kistna.	Old West Kurnool.	Old East Kurnool.	Kurnool, West.	Kurnool, East.	Kurnool, South.	Bellary.	Anantapur.	Total.
Rs. 681	Rs. 316	Rs. 7	Rs. 178	Rs. 74	Rs. 46	Rs. 2,008	Rs. 458	Rs. 4,394
630	4,440	5,036	7,616	2,773	5,199	266	3,272	33,520
32,243	9,201	5,566	19,648	1,363	9,734	10,301	13,440	1,25,420
736	5,995	2,813	11,625	3,307	9,145	285	545	47,743
..	..	..	..	..	..	..	..	..
344	520	278	776	659	992	952	..	5,935
2,259	5,924	4,398	5,254	2,692	2,624	2,708	2,293	55,945
5	11	3	7	..	5	..	..	1,530
..	..	..	..	..	..	8,000	..	8,400
..	..	..	..	..	..	..	..	6,027
..	320	638	412	..	902	3,199	..	9,571
463	393	246	1,351	929	1,360	2,458	368	18,115
1,882	115	3,966	1,694	2,876	3,891	426	579	30,988
1,240	776	4,060	9,446	3,095	7,582	8,051	7,029	68,930
845	239	401	168	762	123	1,354	2,043	7,255
604	578	33	320	464	117	828	1,173	14,234
..	..	..	..	319	1	..	669	1,199
882	461	756	604	494	581	769	757	10,620
..	..	..	..	..	..	..	..	— 224
..	..	..	..	..	..	..	..	394
14,568	21,573	3,982	26,839	4,938	838	41,032	14,135	1,43,621
910	1,701	5,745	7,355	3,349	15,094	6,843	3,265	61,072
11,187	1 345	..	474	824	440	15,312	9,247	39,251
..	..	..	..	..	..	..	45	45
..	5	364	6	..	..	15	— 409	2,688
69,479	53,913	38,292	93,773	28,918	58,674	1,04,807	58,909	6,96,673

A. Rajagopala Aiyar,
Assistant Accountant-General.

Note.—This statement excludes Rs. 20,965 under I (*b*) and Rs. 1,875 under I (*c*) realized in Guntúr by sale of fuel and bamboos of Kurnool since reported by the Conservator of Forests, Central Circle.

P. M. Lushington,
Conservator of Forests, Northern Circle.

Summary of Expenditure of the different districts for the Forest year 1910–1911—*cont.*

Budget heads.	Direction.	Parlákimedi.	Ganjám.	Vizagapatam.	Upper Gódávari.	Lower Gódávari.	Kistna	Old West Kurnool.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
B. Establishments.								
Brought forward, Total, A. Conservancy and Works	18,632	3,978	59,356	23,808	36,539	47,595	69,479	53,913
I. Salaries—								
(*a*) Conservators	23,574	..	..	..	..	..	..	..
(*b*) Superior officers	7,190	4,770	9,093	15,539	3,600	7,438	4,970	3,550
(*c*) Subordinate Forest and Depot establishments	9,139	3,556	20,418	6,478	7,282	10,305	8,511	10,342
(*d*) Office establishments	10,379	960	5,564	3,108	3,791	5,368	3,413	3,551
(*e*) Deputation and special allowances	..	..	..	..	..	..	..	..
Exchange compensation allowance.	..	..	..	..	..	..	..	..
II. Travelling allowances—								
(*a*) Conservators	3,538	..	..	..	..	..	..	..
(*b*) Superior officers	951	1,371	1,705	1,618	1,247	961	1,177	1,001
(*c*) Subordinate Forest and Depot establishments	2,205	1,066	5,694	1,676	2,017	2,767	2,765	3,108
(*d*) Office establishments	1,313	301	1,690	643	1,103	1,246	879	636
III. Contingencies—								
(*a*) Rents, rates and taxes	107	28	94	399	14	171	455	80
(*b*) Official postage and telegrams..	1,474	109	1,330	597	786	1,676	1,046	677
(*c*) Sundries	1,592	446	2,488	784	1,216	2,271	899	1,080
Total, B. Establishments ..	61,462	12,607	48,076	30,842	21,056	32,203	24,115	24,025
Grand Total of expenditure ..	80,094	16,585	1,07,432	54,650	57,595	79,798	93,594	77,938

Budget heads.	Old East Kurnool.	West Kurnool.	East Kurnool.	South Kurnool.	Bellary.	Anantapur.	Total.
	10	11	12	13	14	15	16
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
B. Establishments.							
Brought forward, Total, A. Conservancy and Works..	38,292	93,773	28,918	58,674	1,04,807	58,909	6,96,673
I. Salaries—							
(*a*) Conservators	..	..	..	..	..	..	23,574
(*b*) Superior officers	3,750	9,824	1,624	6,950	12,485	11,039	1,01,822
(*c*) Subordinate Forest and Depot establishments	9,837	11,816	5,854	11,269	21,417	11,579	1,47,803
(*d*) Office establishments	2,747	3,906	2,229	2,973	7,231	4,361	59,581
(*e*) Deputation and special allowances	..	..	..	..	..	..	..
Exchange compensation allowance.	..	..	..	..	..	..	..
II. Travelling allowances—							
(*a*) Conservators	..	..	..	..	..	..	3,538
(*b*) Superior officers	845	1,495	793	1,584	1,838	1,541	18,127
(*c*) Subordinate Forest and Depot establishments	2,600	3,599	1,731	3,671	5,605	3,088	41,592
(*d*) Office establishments	962	761	860	1,012	1,010	1,394	13,810
III. Contingencies—							
(*a*) Rents, rates and taxes	77	121	114	79	754	167	2,660
(*b*) Official Postage and telegrams..	555	918	351	783	1,250	1,296	12,848
(*c*) Sundries	767	1,103	1,282	709	1,453	1,709	17,799
Total, B. Establishments ..	22,140	33,543	14,838	29,030	53,043	36,174	4,43,154
Grand Total of expenditure ..	60,432	1,27,316	43,756	87,704	1,57,850	95,083	11,39,827

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 1*st September* 1911.

A. RAJAGOPALA AIYAR,
Assistant Accountant-General.

Forest Department, Madras Presidency, Central Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1910–1911.

Budget heads.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, East.	Chingleput.	Chittoor.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. REFUNDS AND DRAWBACKS.	100	759	3,230	1,641	253	441	467	2,189	875	633	182	2,15	12,922
A. Conservancy and Works.													
Timber and other produce removed from the forest by Government Agency—													
(*a*) Timber ..	..	918	183	10,679	4,193	251	89	691	123	3,731	1,285	1	22,144
(*b*) Firewood and charcoal ..	..	10,202	74,441	24,894	33,160	12,630	3,751	28,227	15,036	27,678	24,305	30,206	2,84,530
(*c*) Bamboos ..	..	—38	..	215	2	..	801	734	194	2,486	..	1,773	6,167
(*d*) Sandalwood ..	..	..	..	..	..	..	3	1,384	2,518	2,505	1	..	6,411
(*e*) Grass and other minor produce ..	..	3,346	3,138	154	1,303	4	386	447	3	197	50	45	9,073
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	3,386	3,326	6,651	7,572	1,834	2,237	4,300	2,576	1,556	3,938	1,891	39,267
III. Confiscated drift and waifwood	..	5	..	13	76	1	..	2	3	1	4	2	107
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	..	41	..	..	41
VI. Live-stock, stores, tools and plant—													
(*a*) Purchase of cattle ..	..	..	..	..	321	..	..	—86	..	1,675	1,016	..	2,976
(*b*) Feed and keep of cattle ..	..	..	..	..	1,105	..	60	427	292	7,600	1,024	1,780	12,288
(*c*) Stores, tools and plant ..	711	1,407	3,622	975	2,327	251	472	2,171	597	2,862	627	1,286	17,308
VII. Communications and buildings—													
(*a*) Roads and bridges ..	1	..	142	2,891	1,031	291	78	3,026	793	18,597	203	1,737	28,790
(*b*) Buildings ..	10	1,353	6,320	1,215	1,890	1,673	1,256	3,318	9,939	2,808	1,897	3,361	35,140
(*c*) Other works ..	..	216	1,004	370	85	4	17	73	418	1,072	301	87	3,647
VIII. Demarcation, improvement and extension of forests—													
(*a*) Demarcation ..	..	37	619	434	685	2,165	65	337	743	443	263	631	6,422
(*b*) Cost of forest settlement; compensation for land and rights ..	..	244	..	..	..	..	..	..	..	2,872	..	..	3,116
(*c*) Surveys—													
(1) Local ..	884	375	849	..	398	372	..	379	476	1,459	1,012	1,243	7,447
(2) India ..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*d*) Working-plans.	..	..	225	478	42	..	..	18	143	35		..	941
(*e*) Sowing and planting ..	318	14,427	18,991	1,201	849	4,396	362	3,629	7,550	861	950	4,880	58,414
(*f*) Protection from fire	..	265	1,167	4,062	3,889	1,012	664	1,959	926	1,690	3,210	60	18,904
(*g*) Other works ..	..	9,135	6,636	3,586	1,112	8,198	2,911	16,902	16,982	6,874	6,522	5,754	84,612
X. Miscellaneous—													
(*a*) Law charges ..	..	..	..	..	3	..	..	..	..	..	..	100	103
(*b*) Other charges ..	..	56	177	11	11	..	..	7	5	162	719	480	1,628
Total, A. Conservancy and Works	2,024	46,093	1,24,070	59,470	60,307	33,523	13,719	70,184	60,192	87,838	47,509	57,469	6,62,398

Summary of Expenditure of the different districts for the Forest year 1910–1911—*cont.*

Budget heads.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, East.	Chingleput.	Chittoor.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Total.
Brought forward, Total A. "Conservancy and Works"	Rs. 2,024	Rs. 46,093	Rs. 1,24,070	Rs. 59,470	Rs. 60,307	Rs. 33,523	Rs. 13,719	Rs. 70,184	Rs. 60,192	Rs. 87,838	Rs. 47,509	Rs. 57,469	Rs. 6,62,398
B. Establishments.													
I. Salaries—													
(*a*) Conservators	18,000	..	..	..	..	..	..	..	..	..	..	..	18,000
(*b*) Superior officers ..	2,500	12,918	5,321	3,761	4,010	3,738	5,827	12,624	5,100	16,219	5,360	17,502	94,880
(*c*) Subordinate Forest and Depot establishments.	11,559	12,675	15,349	8,028	10,546	7,310	5,118	20,763	13,729	12,137	11,888	13,906	1,43,008
(*d*) Office establishments ..	9,443	5,379	10,389	4,064	4,194	2,965	2,820	6,241	7,501	5,485	5,226	6,698	70,405
(*e*) Deputation and Special allowances	..	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling allowances—													
(*a*) Conservators ..	2,218	..	..	..	..	..	..	..	..	..	..	..	2,218
(*b*) Superior officers ..	10	740	850	1,843	1,499	1,223	556	1,167	1,287	2,383	1,148	1,702	14,408
(*c*) Subordinate Forest and Depot establishments ..	2,345	3,625	5,143	2,379	2,612	2,021	1,425	4,896	4,062	4,449	3,620	5,995	42,572
(*d*) Office establishments	737	1,134	2,324	859	925	407	858	957	1,274	1,197	662	2,079	13,413
III. Contingencies—													
(*a*) Rents, rates and taxes.	..	257	893	281	338	202	303	269	510	91	59	204	3,407
(*b*) Official postage and service telegrams ..	1,078	1,260	1,548	892	774	722	817	2,474	2,047	1,723	913	1,966	16,214
(*c*) Sundries	745	1,323	1,326	1,220	902	475	825	1,392	2,101	1,649	734	2,620	15,312
Total, B. "Establishments".	48,635	39,311	43,143	23,327	25,800	19,063	18,549	50,783	37,611	45,333	29,610	52,672	4,38,837
Grand total of expenditure.	50,659	85,404	1,67,213	82,797	86,107	52,586	32,268	1,20,967	97,803	1,33,171	77,119	1,10,141	10,96,235

NOTE.—The form has been corrected in the Circle office by distributing the Madras Bank realizations and book adjustments and expenditure in Madras depots to the respective supplying districts and by deducting the revenue realized and expenditure incurred on account of the sale of Kurnool fuel and bamboos from the Guntúr district for transfer to Northern Circle to the credit of Kurnool district.

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 1*st September* 1911.

A. RAJAGOPALA AIYAR,
Assistant Accountant-General.

Forest Department, Madras Presidency, Southern Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1910–1911.

Budget heads.	Direction.	South Canara.	North Malabar.	South Malabar.	Nilgiris, The.	Kollegal.	Coimbatore, North.	Coimbatore, Central.	Coimbatore, South.	Madura.	Ramnad.	Tinnevelly.	Total.
	RS.	RS.	RS	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. REFUNDS AND DRAWBACKS.	..	1,906	1,320	..	113	73	499	960	341	1,532	2	123	6,869
A. Conservancy and Works.													
I. Timber and other produce removed from the forests by Government Agency—													
(*a*) Timber ..	..	1,536	4,417	6,839	2,761	69	110	40	18,055	..	..	90	28,917
(*b*) Firewood and charcoal ..	..	19,912	295	1	13,498	4,480	5,381	19,353	6,326	52,952	..	278	1,22,476
(*c*) Bamboos ..	..	188	716	2,301	..	536	..	5	575	..	..	..	4,321
(*d*) Sandalwood ..	..	1	..	..	1,047	2,279	12,436	..	..	..	..	..	16,763
(*e*) Grass and other minor produce.		3,455	32	..	1,176	1,030	5,818	871	143	312	..	61	12,898
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	6,024	424	3	869	1,355	2,162	3,312	1,867	3,252	160	2,673	22,101
III. Confiscated drift and waifwood	..	35	..	3	3	6	3	286	58	..	..	..	394
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	18	..	1,685	..	..	..	2,500	..	..	..	4,203
VI. Live-stock, stores, tools and plant—													
(*a*) Purchase of cattle ..	..	..	3,818	4,378	1,754	..	..	..	1,531	..	..	..	11,481
(*b*) Feed and keep of cattle ..	..	6,329	32,019	14,721	7,090	1,301	..	38	16,815	1,422	..	..	79,735
(*c*) Stores, tools and plant ..	1,574	1,992	1,956	1,029	1,106	466	675	533	5,770	284	..	522	15,907
VII. Communications and buildings—													
(*a*) Roads and bridges ..	..	1,380	2,325	1,109	1,918	5,926	7,914	686	6,862	8,059	65	4,780	41,024
(*b*) Buildings ..	5	1,881	3,211	2,811	5,162	7,962	9,386	1,465	4,397	4,140	..	4,062	44,482
(*c*) Other works ..	..	575	1,382	818	172	739	329	42	494	248	..	20	4,819
VIII. Demarcation, improvement and extension of forests—													
(*a*) Demarcation ..	..	2,372	2,298	658	190	565	285	524	104	5,872	8	231	13,107
(*b*) Cost of forest settlement; compensation for land and rights ..	..	273	..	..	74	..	..	..	..	362	6	3,141	3,856
(*c*) Surveys { Local.	..	366	572	466	490	456	848	571	640	1,137	..	330	5,876
(*c*) Surveys { India.	..	..	..	..	..	..	..	..	..	..	..	..	..
(*d*) Working plans.	..	..	..	102	195	..	..	..	..	..	..	..	297
(*e*) Sowing and planting ..	715	234	506	8,346	5,007	68	163	222	2,688	12,511	..	1,714	32,174
Protection from fire	..	3,407	7,535	2,292	3,288	2,544	2,489	2,688	2,141	3,805	370	1,951	32,510
(*g*) Other works ..	..	546	1,783	1,611	1,399	2,403	3,901	8,466	1,041	10,801	422	4,851	37,224
IX. Miscellaneous—													
(*a*) Law charges ..	..	..	..	..	..	..	15	..	..	..	..	..	15
(*b*) Other charges ..	592	170	21	59	4,179	60	110	332	287	59	2	36	5,907
Total, A. Conservancy and Works	2,886	52,582	64,648	47,547	53,176	33,318	52,524	40,394	67,635	1,06,748	*1,035	24,863	5,47,356

* For six months from January 1911.

Summary of Expenditure of the different districts for the Forest year 1910–1911—*cont.*

Budget heads.	Direction.	South Canara.	North Malabar.	South Malabar.	Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Madura.	Ramnád.	Tinnevelly.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward, total, A. Conservancy and Works.	2,886	52,582	64,648	47,547	53,176	33,318	52,524	40,394	67,635	1,06,748	1,035	24,863	547,356
B. Establishments.													
I. Salaries—													
(*a*) Conservators ..	20,174	..	..	..	..	..	..	..	..	..	..	..	20,174
(*b*) Superior Officers ..	2,955	11,356	16,537	6,734	15,594	4,885	13,233	14,200	13,420	22,179	1,250	13,478	1,35,821
(*c*) Subordinate Forest and Depot establishments ..	6,143	12,598	12,074	7,403	13,970	6,425	12,935	10,484	10,010	13,024	1,273	13,667	1,20,006
(*d*) Office establishments	9,645	7,102	5,370	4,961	5,458	3,659	5,371	3,642	4,595	5,703	579	4,546	60,631
(*e*) Deputation and special allowances	..	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling Allowances—													
(*a*) Conservators ..	3,353	..	..	..	..	..	..	..	..	..	..	..	3,353
(*b*) Superior Officers ..	107	2,150	923	2,026	3,116	2,568	2,428	1,461	1,344	2,539	500	1,195	20,357
(*c*) Subordinate Forest and Depot establishments ..	750	3,838	3,471	2,291	2,568	1,702	4,567	2,980	3,036	4,931	284	3,388	33,806
(*d*) Office establishments	696	1,540	960	1,074	767	924	1,254	893	701	1,604	152	783	11,348
III. Contingencies—													
(*a*) Rents, rates and taxes	21	105	125	16	1,220	50	96	109	112	996	52	189	3,091
(*b*) Official postage and telegrams ..	733	1,708	812	705	505	805	1,221	708	768	1,548	175	1,018	10,706
(*c*) Sundries	1,145	1,612	1,302	1,624	785	1,255	2,086	2,068	1,020	1,604	645	695	15,841
Total, B. Establishments.	45,722	42,009	41,574	26,834	43,983	22,273	43,191	36,545	35,006	54,128	4,910	38,959	4,35,134
Grand total of Expenditure.	48,608	94,591	1,06,222	74,381	97,159	55,591	95,715	76,939	1,02,641	1,60,876	*5,945	63,822	9,82,490

* For six months from January 1911.

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 1*st September* 1911.

A. RAJAGOPALA AIYAR,
Assistant Accountant-General.

SUMMARY of Receipts and Expenditure during 1910-1911 for each circle and for the Presidency compiled in the Board's office from the Accountant-General's statement.

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total.	
				1910-1911.	1909-1910.
1	2	3	4	5	6
RECEIPTS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	56,973	52,331	1,50,268	2,59,572	3,45,865
(b) Firewood and charcoal	2,01,497	5,05,647	1,79,927	8,87,073	8,84,199
(c) Bamboos	82,584	7,754	6,124	96,462	95,431
(d) Sandalwood	..	63,665	62,495	1,26,160	1,53,355
(e) Grass and other minor produce	8,394	7,562	23,796	39,752	59,676
Total, I	3,49,450	6,36,959	4,22,610	14,09,019	15,38,526
II. Timber and other produce removed from the forests by consumers or purchasers—					
(a) Timber	67,941	88,824	45,839	2,02,604	2,74,419
(b) Firewood and charcoal	40,488	1,61,501	1,85,907	3,87,896	3,75,649
(c) Bamboos	50,675	79,554	30,324	1,60,553	1,87,113
(d) Grazing, etc.	1,86,454	3,55,471	89,718	6,31,643	7,69,770
(e) Other produce	1,79,499	2,77,149	1,12,117	5,68,765	7,05,846
(f) Tree-owners' fees	68,595	28,451	4,070	1,01,146	1,06,729
(g) Other items	117	2,209	1	2,327	2,762
(h) Commutation fees	1,551	9,779	..	11,330	14,618
Total, II	5,95,320	10,02,968	4,67,976	20,66,264	24,36,906
III. Confiscated drift and waifwood	9,610	1,983	4,635	15,628	11,477
IV. Revenue from forests not managed by Government	..	..	..	..	..
V. Miscellaneous—					
(a) Fines and forfeitures	34,191	1,15,251	49,067	1,98,509	25,164
(b) Other sources	11,968	13,121	57,431	82,520	1,72,130
Total, V	46,159	1,28,372	1,06,498	2,81,029	1,97,294
Grand Total, Receipts	9,99,939	17,70,282	10,01,719	37,71,940	41,84,203
EXPENDITURE.					
I. Refunds and drawbacks	4,394	12,922	6,869	24,185	30,447
A. Conservancy and Works.					
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	33,520	22,144	28,917	84,581	99,785
(b) Firewood and charcoal	1,25,420	2,84,530	1,22,476	5,32,426	6,06,794
(c) Bamboos	47,743	6,167	4,321	58,231	56,878
(d) Sandalwood	..	6,411	16,763	23,174	25,812
(e) Grass, etc.	5,935	9,073	12,898	27,906	37,561
Total, A-I	2,12,618	3,28,325	1,85,375	7,26,318	8,26,830
II. Timber and other produce removed from the forests by consumers or purchasers	55,945	39,267	22,101	1,17,313	1,26,509
III. Confiscated drift and waifwood	1,530	107	394	2,031	1,759
V. Rent of leased forests and payments to shareholders in forests managed by Government	8,400	41	4,203	12,644	15,488
VI. Live-stock, stores, tools and plant—					
(a) Purchase of cattle	6,027	2,976	11,481	20,484	7,941
(b) Feed and keep of cattle	9,571	12,288	79,735	1,01,594	1,06,321
(c) Stores, tools and plant	18,115	17,308	15,907	51,330	52,842
Total, A-VI	33,713	32,572	1,07,123	1,73,408	1,67,104
VII. Communications and buildings—					
(a) Roads and bridges	30,988	28,790	41,024	1,00,802	86,163
(b) Buildings	68,930	35,140	44,482	1,48,552	1,64,511
(c) Other works	7,255	3,647	4,819	15,721	17,378
Total, A-VII	1,07,173	67,577	90,325	2,65,075	2,68,052

Summary of Receipts and Expenditure during 1910-1911 for each circle and for the Presidency compiled in the Board's office from the Accountant-General's statement—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total.	
				1910-1911.	1909-1910.
1	2	3	4	5	6
EXPENDITURE—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.
A. Conservancy and Works—cont.					
VIII. Demarcation, improvement and extension of forests—					
(*a*) Demarcation	14,234	6,422	13,107	33,763	32,594
(*b*) Cost of forest settlement, etc.	1,199	3,116	3,856	8,171	1,14,036
(*c*) Surveys (1) Local	10,620	7,447	5,876	23,943	19,762
(*c*) Surveys (2) India	— 224	..	..	— 224	2,309
(*d*) Working-plans	394	941	297	1,632	1,971
(*e*) Sowing and planting	1,43,621	58,414	32,174	2,34,209	2,07,189
(*f*) Protection from fire	61,072	18,904	32,510	1,12,486	1,08,242
(*g*) Other works	39,251	84,612	37,224	1,61,087	1,71,898
Total, A-VIII	2,70,167	1,79,856	1,25,044	5,75,067	5,58,001
IX. Miscellaneous—					
(*a*) Law charges	45	103	15	163	269
(*b*) Other charges	2,688	1,628	5,907	10,223	7,482
Total, A-IX	2,733	1,731	5,922	10,386	7,751
Total, A. Conservancy and Works, including Refunds	6,96,673	6,62,398	5,47,356	19,06,427	21,01,932
B. Establishments.					
I. Salaries—					
(*a*) Conservators	23,574	18,000	20,174	61,748	61,665
(*b*) Superior officers	1,01,822	94,880	1,35,821	3,32,523	3,37,800
(*c*) Subordinate forest and depot establishments	1,47,803	1,43,008	1,20,006	4,10,817	4,02,599
(*d*) Office establishments	59,581	70,405	60,631	1,90,617	1,80,818
(*e*) Deputation and special allowances	..	..	..	..	..
(*f*) Exchange compensation allowance	..	..	..	..	4
Total, B-I	3,32,780	3,26,293	3,36,632	9,95,705	9,82,886
II. Travelling allowances—					
(*a*) Conservators	3,538	2,218	3,353	9,109	8,753
(*b*) Superior officers	18,127	14,408	20,357	52,892	51,366
(*c*) Subordinate forest and depot establishments	41,592	42,572	33,806	1,17,970	1,08,760
(*d*) Office establishment	13,810	13,413	11,348	38,571	33,310
Total, B-II	77,067	72,611	68,864	2,18,542	2,02,189
III. Contingencies—					
(*a*) Rents, rates and taxes	2,660	3,407	3,091	9,158	8,777
(*b*) Official postage and telegrams	12,848	16,214	10,706	39,768	38,583
(*c*) Sundries	17,799	15,312	15,841	48,952	50,560
Total, B-III	33,307	34,933	29,638	97,878	97,920
Total, B. Establishments	4,43,154	4,33,837	4,35,134	13,12,125	12,82,995
Grand Total, Expenditure	11,39,827	10,96,235	9,82,490	32,18,552	33,84,927
Surplus	— 1,39,888	+ 6,74,047	+ 19,229	5,53,388	7,99,276
Total	9,99,939	17,70,282	10,01,719	37,71,940	41,84,203

ANNUAL FORM No. 81.

OUTSTANDINGS and Liabilities on account of Contractors and Disbursers for the Forest year 1910–1911.

District.	Department Debtor.			Department Creditor.			Balance due	
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
Northern Circle.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator of Forests, Northern Circle	..	26,343 0 1	26,343 0 1	2,422 8 9	23,915 9 2	26,338 1 11	−4 14 2	..
Parlákimedi Maliahs	..	9,001 11 5	9,001 11 5	51 8 3	9,331 15 8	9,383 7 11	381 12 6	..
Ganjám	..	1,10,855 14 5	1,10,855 14 5	3,473 1 3	1,12,250 10 11	1,15,723 12 2	4,867 13 9	..
Vizagapatam	..	41,665 15 8	41,665 15 8	1,055 1 8	41,938 0 9	42,993 2 5	1,327 2 9	..
Godávari, Lower	..	70,304 10 5	70,304 10 5	1,839 10 9	70,126 14 3	71,965 9 0	1,661 14 7	..
Do. Upper	..	45,719 10 9	45,719 10 9	5,181 5 2	43,958 6 9	49,139 11 11	3,420 1 2	..
Kistna	..	74,510 15 5	74,510 15 5	1,310 12 7	73,956 6 8	75,267 3 3	756 3 10	..
Old Kurnool, West	..	1,04,399 6 4	1,04,399 6 4	5,467 12 1 −5,433 10 1	1,04,365 4 4	1,09,833 0 5 −5,433 10 1*	5,433 10 1 −5,433 10 1*	..
New Kurnool, West	..	1,65,801 15 3	1,65,801 15 3	5,433 10 1	1,66,385 2 1	1,71,818 12 2	6,016 12 11	..
Old Kurnool, East	..	78,998 12 6	78,998 12 6	6,423 5 10 −7,728 15 5	80,304 6 1	86,727 11 11	7,728 15 5 −7,728 15 5†	..
New Kurnool, East	..	49,607 11 11	49,607 11 11	7,728 15 5	43,220 13 6	50,949 12 11	1,342 1 0	..
Kurnool, South	..	1,10,740 10 9	1,10,740 10 9	..	1,15,900 1 6	1,15,900 1 6	5,159 6 9	..
Bellary	..	1,56,442 14 9	1,56,442 14 9	4,789 2 5	1,55,122 14 10	1,59,912 1 3	3,469 2 6	..
Anantapur	..	1,12,033 0 3	1,12,033 0 3	2,506 8 2	1,11,101 4 6	1,13,607 12 8	1,574 12 5	..
Total	..	11,56,426 5 11	11,56,426 5 11	34,520 12 11	11,51,877 15 0	11,86,398 11 11	29,972 6 0	..
Central Circle.								
Conservator of Forests, Central Circle	..	656 11 1	656 11 1	158 13 9	517 1 10	675 15 7	19 4 6	..
Guntúr	..	84,228 8 2	84,228 8 2	2,952 3 8	84,398 9 10	87,350 13 6	3,122 5 4	..
Nellore	..	1,61,035 0 8	1,61,035 0 8	5,325 1 2	1,62,043 14 9	1,67,368 15 11	6,333 15 3	..
Cuddapah, North	..	1,03,768 12 4	1,03,768 12 4	1,850 0 8	1,04,935 14 3	1,06,785 14 11	3,017 2 7	..
Do. South	..	14,328 8 8	14,328 8 8	1,139 13 8 — 414 3 11	13,602 14 11	14,742 12 7 —414 3 11	414 3 11 —414 3 11	‡ ..
Do. East	..	73,969 14 9	73,969 14 9	664 5 4	74,117 2 11	74,781 8 3	811 9 6	..
Chingleput	..	66,000 1 11	66,000 1 11	2,852 7 3	65,831 3 5	68,683 10 8	2,683 8 9	..
Chittoor	..	15,446 0 0	15,446 0 0	+ 414 3 11	16,962 10 10	17,376 14 9	1,930 14 9	..
Arcot, North	..	1,35,780 0 8	1,35,780 0 8	3,370 1 6	1,35,198 4 10	1,38,568 6 4	2,788 5 8	..
Do. South	..	1,12,607 0 6	1,12,607 0 6	1,469 5 3	1,12,781 14 2	1,14,251 3 5	1,644 2 11	..
Salem, North	..	1,18,811 0 7	1,18,811 0 7	8,602 9 11	1,16,829 7 5	1,25,432 1 4	6,621 0 9	..
Do. South	..	90,239 13 4	90,239 13 4	2,078 11 9	90,981 13 10	93,060 9 7	2,820 12 3	..
Old Trichinopoly	..	34,957 12 5	34,957 12 5	2,803 12 9 −2,521 14 8	34,675 14 4	37,479 11 1 —2,521 14 8	2,521 14 8 −2,521 14 8	§ ..
Old Tanjore	..	7,583 14 8	7,583 14 8	2,073 3 5 —1,655 11 4	7,166 6 7	9,239 10 0 —1,655 11 4	1,655 11 4 —1,655 11 4	§ ..
Trichinopoly *cum* Tanjore	..	47,529 2 5	47,529 2 5	+4,177 10 0	44,839 11 8	49,017 5 8	1,488 3 3	..
Total	..	10,66,942 6 2	10,66,942 6 2	35,340 10 1	10,64,883 1 7	11,00,223 11 8	33,281 5 6	..
Southern Circle.								
Conservator of Forests, Southern Circle.	..	1,147 2 9	1,147 2 9	33 1 10	1,177 8 6	1,210 10 4	63 7 7	..
South Canara	..	99,341 7 3	99,341 7 3	952 0 6	1,00,752 4 3	1,01,705 4 9	2,363 13 6	..
North Malabar	..	80,942 11 0	80,942 11 0	3,170 6 3	80,420 15 7	83,591 5 10	2,648 10 10	..
South do.	..	61,038 8 4	61,038 8 4	1,081 15 11	61,933 4 2	63,015 4 1	1,976 11 9	..
The Nilgiris	..	78,859 1 7	78,859 1 7	2,582 1 9	79,983 7 10	82,565 9 7	3,706 8 0	..
Kollegal	..	62,121 15 0	62,121 15 0	2,796 8 1	64,161 1 5	66,957 9 6	4,835 10 6	..
North Coimbatore	..	81,197 5 2	81,197 5 2	2,973 13 8	81,626 9 10	84,600 7 6	3,403 2 4	..
Central do.	..	64,970 14 8	64,970 14 8	1,460 7 11	65,679 13 10	67,140 5 9	2,169 7 1	..
South do.	..	87,964 8 0	87,964 8 0	3,687 7 10	88,718 5 0	92,405 12 10	4,441 4 10	..
Madura	..	1,40,995 5 2	1,40,995 5 2	3,525 3 11	1,43,223 8 7	1,46,748 12 6	5,753 7 4	..
Rámnád	..	4,145 0 10	4,145 0 10	..	4,219 4 2	4,219 4 2	74 3 4	..
Tinnevelly	..	50,714 8 9	50,714 8 9	993 2 5	51,047 5 5	52,040 7 10	1,325 15 1	..
Total	..	8,13,438 8 6	8,13,438 8 6	23,256 6 1	8,22,944 8 7	8,46,200 14 8	32,762 6 2	..
Grand Total, Presidency	..	30,36,307 4 7	30,36,807 4 7	93,117 13 1	30,29,705 9 2	31,32,823 6 3	96,016 1 8	..

* Transferred to New West Kurnool.
‡ Transferred to Chittoor.
† Transferred to New East Kurnool.
§ Transferred to Trichinopoly and Tanjore.

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 1st *September* 1911.

A. RAJAGOPALA AIYAR,
Assistant Accountant-General

ANNUAL FORM. No. 82.

Forest Department, Madras Presidency.

REVENUE received and outstandings on account of Revenue during 1910–1911.

District.	Particulars.	Outstandings at commencement of the year.	Value of sales and other revenue during the year.	Total.	Amount realized during the year.	Balance due to the department at the end of the year.	Remarks.
Northern Circle.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Direction	Timber and other forest produce.	..	179 0 0	179 0 0	179 0 0	..	
Ganjám	Do.	9 0 0	62,003 6 7	62,012 6 7	61,818 0 0	194 6 7	
Vizagapatam ..	Do.	156 4 0	47,604 8 0	47,760 12 0	47,756 0 0	4 12 0	
Gódávari, Upper.	Do.	3,427 6 5	30,529 9 7	33,957 0 0	33,881 0 0	76 0 0	
Do. Lower.	Do.	2,177 6 1	1,70,592 14 7	1,72,770 4 8	1,61,567 0 0	(*a*)11,203 4 8	
Kistna	Do.	5,516 3 2	1,12,446 5 6	1,17,962 8 8	1,16,340 0 0	(*b*) 1,622 8 8	
Kurnool, East ..	Do.	..	20,865 4 0	20,865 4 0	20,813 0 0	52 4 0	
Do. South ..	Do.	1,779 2 11	1,05,982 1 11	1,07,761 4 10	1,01,608 0 0	(*c*) 6,153 4 10	
Do. West ..	Do.	504 13 11	1,70,885 3 1	1,71,388 1 0	1,71,290 0 0	98 1 0	
Bellary	Do.	33,634 0 2	1,71,564 8 4	2,05,198 8 6	1,45,799 0 0	(*d*)59,399 8 6	
Anantapur ..	Do.	4,466 2 3	2,16,542 10 1	2,21,008 12 4	1,35,373 0 0	(*e*) 85,635 12 4	
	Total ..	51,670 6 11	11,09,193 7 8	11,60,863 14 7	9,96,424 0 0	1,64,439 14 7	
Central Circle.							
Direction ..	Timber and other produce.	..	15 0 0	15 0 0	15 0 0	..	
North Cuddapah.	Do.	10,654 1 9	98,559 9 4	1,09,213 11 1	1,05,954 0 0 (*f*)+ 365 5 9	2,894 5 4	
East do. ..	Do.	4,342 0 10	1,05,265 3 1	1,09,607 3 11	1,08,835 0 0	772 3 11	
Nellore	Do.	36,509 4 1	2,31,361 4 8	2,67,870 8 9	2,47,850 0 0 (*g*) + 3 1 5	20,017 7 4	
Chingleput ..	Do.	3,038 12 6	89,532 12 1	92,571 8 7	89,045 0 0	3,526 8 7	
North Arcot ..	Do.	* 17,149 5 4	2,70,954 3 8	2,88,103 9 0	2,51,264 0 0	36,839 9 0	
Chittoor	Do.	* 10,241 5 1	80,330 13 6	90,572 2 7	65,872 0 0	24,700 2 7	
South Arcot ..	Do.	38,053 15 0	2,16,783 7 6	2,54,837 6 6	2,36,231 0 0 (*h*)+ 72 1 3	18,534 5 3	
Trichinopoly ..	Do.	3,074 7 2	1,94,635 3 2	1,97,709 10 4	1,91,199 0 0	6,510 10 4	
Salem, North ..	Do.	12,710 14 1	1,81,374 1 8	1,94,084 15 9	1,65,866 0 0	28,218 15 9	
Do. South ..	Do.	3,980 5 10	1,23,256 8 6	1,27,236 14 4	1,26,975 0 0	261 14 4	
Guntúr	Do.	919 14 5	1,80,371 9 1	1,81,291 7 6	1,81,176 0 0	115 7 6	
	Total ..	1,40,674 6 1	17,72,439 12 3	19,13,114 2 4	17,70,282 0 0 (*i*)+ 440 8 5	1,42,391 9 11	
Southern Circle.							
Direction	Timber and other forest produce.	..	322 13 8	322 13 8	322 13 8	..	
Canara, South ..	Do.	13,877 15 4 — 65 8 1	1,08,548 0 7	1,22,360 7 10	1,16,959 0 0 † 325 5 4	5,076 2 6	
Malabar, North ..	Do.	11,002 15 6 — 7 3 8	57,971 2 1	68,966 13 11	43,681 0 0 † 14 8 0	25,271 5 11	
Do. South ..	Do.	5,822 11 4 — 0 8 5	95,792 3 11	1,01,614 6 10	95,784 0 0	5,830 6 10	
Nilgiris, The ..	Do.	1,482 5 3 — 37 2 0	61,253 4 7	62,698 7 10	59,237 0 0	3,461 7 10	
Kollegal	Do.	147 0 0	21,611 6 6	21,758 6 6	21,594 0 0 † 16 0 0	148 6 6	
Coimbatore, North.	Do.	3,883 12 1 — 31 10 6	1,17,256 2 5	1,21,108 4 0	1,20,350 0 0	758 4 0	
Do. Central.	Do.	21,065 15 1 — 1 0 0	73,976 7 7	95,041 6 8	81,022 0 0 † 337 0 0	13,682 6 8	
Do. South.	Do.	6,804 2 9	73,624 1 2	80,428 3 11	78,917 0 0	1,511 3 11	
Madura	Do.	19,586 10 9 — 15 0 0	2,39,862 2 11	2,59,433 13 8	2,42,165 0 0	17,268 13 8	
Ramnad	Do.	26,431 4 4 — 142 8 0	1,31,674 13 0	37,055 8 0	30,833 0 0	6,222 8 0	
Tinnevelly ..	Do.			1,20,908 1 4	1,10,854 0 0 † 899 12 0	9,154 5 4	
	Total ..	1,10,104 12 5 — 300 8 8	9,81,892 10 5	10,91,696 14 2	10,01,718 13 8 † 1,592 9 4	88,385 7 2	
	Grand Total, Presidency.	3,02,449 9 5 — 300 8 8	38,63,525 14 4	41,65,674 15 1	37,70,457 15 5	3,95,216 15 8	

* Figures as per distributions of ranges and districts. † Written off the accounts.

(*a*) Of this, Rs. 3,412 were collected subsequently, Rs. 981 are under deposit, and Rs. 2,225 are due in 1911–1912

(*b*) Of this, Rs. 1,371 are due after the close of the year, and Rs. 215 since collected with interest.

(*c*) Of this, Rs. 297 are in earnest money deposit, and Rs. 5,836 due in 1911–1912.

(*d*) Of this, Rs. 59,076 are due only after the close of the year.

(*e*) Rs. 85,466 are due after the close of the year.

(*f*) Written off under Board's Proceedings, Forest Mis. No. 1761, dated 8th December 1910.

(*g*) ,, under Conservator's Sanction order No. 273, dated 10th June 1910.

(*h*) ,, under Conservator's ,, No. 13, dated 18th January 1911 and No. 197, dated 29th June 1911.

(*i*) Amount written off

NOTE (*Southern Circle*).—Deductions in column 3 are on account of cancellation of leases, erroneous demands and collections in the previous year omitted to be adjusted towards outstandings. Out of the total outstandings of Rs. 88,385-7-2, the amount actually due on or before 30th June 1911 was Rs. 11,847.

Annual Form No. 83.

Forest Department, Madras Presidency.

Financial Results of the year 1910–1911.

District.	Timber and other produce removed from the forest by Government Agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjám	30,667	28,406	31,166	34,096	52,812	61,833	1,15,314
Vizagapatam	24,489	14,451	23,277	31,166	15,072	47,766	60,689
Upper Gódávari ..	7,042	6,153	26,844	22,732-	32,571	33,886	61,456
Lower do. ..	34,217	18,103	1,27,366	41,236	28,092	1,61,583	87,431
Kistna	56,533	35,058	59,838	20,738	45,124	1,16,371	1,00,920
Kurnool, East ..	11,861	9,625	8,957	14,574	25,463	20,818	49,662
Do. South ..	53,404	43,614	48,230	42,914	71,565	1,01,634	1,58,093
Do. West ..	87,229	64,052	84,107	51,532	1,01,187	1,71,336	2,16,771
Bellary	15,693	20,620	1,30,116	42,236	1,02,996	1,45,809	1,65,852
Anantapur	27,316	17,996	1,08,072	33,259	51 405	1,35,388	1,02,660
Total ..	3,48,451	2,58,078	6,47,973	3,34,483	5,26,287	(a) 9,96,424 (b) + 3,515	11,18,848 + 16,585 * + 4,394
Central Circle.							
Guntúr	50,387	18,271	1,30,789	30,567	42,616	1,81,176	91,454
Nellore	1,15,127	90,007	1,32,723	15,748	64,536	2,47,850	1,70,291
Cuddapah, North ..	52,522	38,129	53,432	25,194	20,751	1,05,954	84,074
Do. East ..	64,210	41,051	44,625	27,095	20,921	1,08,835	89,067
Chingleput	34,010	13,047	55,035	16,663	24,486	89,045	54,196
Chittoor	6,326	6,819	59,546	16,058	11,842	65,872	34,719
North Arcot	79,947	36,282	1,71,332	40.546	48,759	2,51,279	1,25,587
South Arcot ..	76,497	25,049	1,59,734	29,862	46,369	2,36,231	1,01,280
Trichinopoly	55,307	38,709	1,35,892	38,899	37,190	1,91,199	1,14,798
Salem, North	68,958	52,616	96,908	32,892	50,244	1,65,866	1,35,752
Salem, South	33,668	32,997	93,307	21,887	27,211	1,26,975	82,095
Total ..	6,36,959	3,92,977	11,33,323	2,95,411	3,94,925	17,70,282	10,83,313 * + 12,922
Southern Circle.							
South Canara	51,490	49,063	65,500	34,426	15,731	1,16,990	99,220
North Malabar ..	23,110	30,318	20,602	45,057	35,477	43,712	1,10,852
South do.	85,637	45,343	10,178	5,543	28,124	95,815	79,010
The Nilgiris	39,174	54,685	20,093	16,823	30,281	59,267	1,01,789
Kollegal	6,880	17,884	14,744	9,829	32,597	21,624	60,220
North Coimbatore ..	79,345	37,877	41,036	23,869	38,599	1,20,381	1,00,345
Central do. ..	23,516	30,410	57,537	29,976	21,182	81,053	81,568
South do. ..	38,678	64,751	40,270	17,284	25,285	78,948	1,07,270
Madura	72,542	67,945	1,69,654	40,474	57,087	2,42,196	1,65,506
Rámnád..	..	20	30,848	7,131	1,107	30,848	8,258
Tinnevelly	2,238	714	1,08,647	39,562	28,176	1,10,885	68,452
Total ..	4,22,610	3,99,010	5,79,109	2,69,924	3,13,556	10,01,719	(a) 9,82,490
Grand Total, Presidency.	14,08,020	10,50,065	23,60,405	8,99,818	12,34,768	27,71,940	32,01,236 * + 17,316

* Refunds and drawbacks.
(a) This includes Rs. 179 shown under Direction in Form No. 8C.
(b) This relates to Parlakimedi maliahs.

ANNUAL FORM No. 84.

Forest Department, Madras Presidency.

STATEMENT of Elephants and other live-stock during 1910–1911.

PART I.

District.	On hand at commencement of the year.		Number received during the year.	Number disposed of during the year.	On hand at the end of the year.		Total expenditure on maintenance during the year.
	Number.	Value.			Number.	Value.	
			NORTHERN CIRCLE.				
			(1) *Elephants.*				
		Rs.				Rs.	Rs.
Ganjám	1	500	3	..	4	5,950	1,674
Vizagapatam	1	1,500	..	..	1	1,500	978
Upper Gódávari	1	900	1	1	1	900	1,254
Kurnool, West	1	1,600	..	..	1	1,600	732
Total ..	4	4,500	4	1	7	9,950	4,638
			SOUTHERN CIRCLE.				
			(1) *Elephants.*				
South Canara	..	..	2	2	..	..	333
Malabar, North	58	1,01,600	5	6	57	1,05,600	24,162
Do. South	23	32,200 (a)+6,300	9	4	28	46,100	11,781
The Nilgiris	3	3,500	9	1	11	21,300	3,048
Coimbatore, South	12	34,050	4	5	11	32,000	7,612
Total ..	96	1,77,650	29	18	107	2,05,500	46,936
Grand Total, Presidency ..	100	1,82,150	33	19	114	2,15,450	51,574
			Northern Circle.				
			(2) *Other live stock.*				
Ganjám	4	67	6	4	16	139	194
Kurnool, South	* 18	360	..	4	14	280	1,540
Bellary	46	529	..	1	45	492	3,199
Total ..	68	956	6	9	65	911	4,933
			CENTRAL CIRCLE.				
			Other live stock.				
East Cuddapah	10	587	4	3	11	753	1,105
North Arcot	13	542	14	12	15	625	427
Chittoor	2	35	12	3	11	289	60
South Arcot	6	408	..	6	..	..	292
North Salem	66	3,300	38 —14	16	74	2,354	7,600
South Salem	..	..	18	..	18	690	1,024
Trichinopoly	† 18	1,008	..	18	..	..	1,780
Total ..	115	5,952	72	58	129	4,921	12,288
			Southern Circle.				
			(2) *Other live Stock.*				
South Canara	59	3,348	32	16	75	5,094	6,287
Malabar, North	* 72	5,479	..	5	67	4,515	9,004
Do. South	34	1,362	13	17	30	1,081	2,056
The Nilgiris	25 (b)—1	1,499 — 15	..	7	17	1,051	3,653
Kollegal	12	840	..	2	10	665	1,301
Coimbatore, South	47	1,850	12	17	42	2,336	6,152
Madura	8	464	..	..	8	395	1,422
Total ..	256	14,827	57	64	249	15,137	29,875
Grand Total, Presidency ..	439	21,735	135	131	443	20,969	47,096

* As revised by the Collector. † Included in the district return for last year under miscellaneous.

(a) Increase due to revaluation. (b) Last year's closing balance reported to be incorrect.

Statement of Elephants and other live-stock during 1910–1911—*cont.*

PART II.

District.	Names.	When purchased or otherwise obtained by Government.	Age.	How disposed of.
1	2	3	4	5
	NORTHERN CIRCLE.			
	Elephants gone off the list during the year.			
Gódávari Upper ..	Kesavan	Transferred from South Malabar.	YRS. 19	Died.
	CENTRAL CIRCLE—*Nil.*			
	SOUTHERN CIRCLE.			
	Elephants gone off the list during the year.			
South Canara ..	1. Agnes	Captured on 11th March 1906 .	31	Sent back to North Malabar on 16th February 1911.
	2. Kalyani	Purchased in October 1889 ..	71	
Malabar, North ..	1. Moideenkhan	Captured on 3rd January 1896.	32	Transferred to the Nilgiris.
	2. Padmini	Captured on 10th February 1896	42	
	3. Nurjahan	Captured on 12th February 1910	66	Died on 26th October 1910.
	4. Kalyani	Purchased in October 1889 ..	71	Transferred to South Malabar.
	5. Agnes	Captured on 11th March 1906..	31	
	6. Male	Do. 10th May 1911 ..	22	Died on 9th June 1911.
Malabar, South ..	1. Vixen	Purchased in 1878	49	Sold to Pudukkottai Darbar on 9th July 1910.
	2. Kesavan	Captured on 11th February 1905	20	Transferred to Upper Gódávari on 21st August 1910.
	3. Millie	Captured on 10th August 1910.	1	Died on 13th May 1911.
	4. Ravi	Captured on 3rd March 1902..	25	Transferred to West Kurnool on 25th June 1911.
The Nilgiris ..	1. Ravi	Do. ..	25	Transferred to South Malabar on 14th December 1910.
Coimbatore, South.	1. Beauty	Captured on 13th July 1910 ..	30	Died on 20th July 1910.
	2. Claudia	Captured on 22nd November 1909	4	Transferred to South Malabar on 19th January 1911.
	3. Rajamani	Captured in 13th July 1910 ..	4	
	4. Millie	Captured on 10th August 1910.	1	
	5. Selvaraj	Captured on 7th October 1910	5	

ANNUAL FORM No. 85.

Forest Department, Madras Presidency.

ABSTRACT of value of stores, tools and plant for 1910–1911.

District.	Buildings.				Stores.				Total.				Difference in value.	
	On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.			
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Circle.		RS.		RS.		RS.		RS.		RS.		RS.	RS.	RS.
Direction ..	..	..	1	800	693	2,724	336	2,414	693	2,724	337	3,214	490	..
Ganjám ..	73	32,278	86	37,917	1,741	6,116	2,168	9,484	1,814	38,394	2,254	47,401	9,007	..
Vizagapatam ..	57	7,159	63	7,793	1,296	2,762	1,199	2,810	1,353	9,921	1,262	10,603	682	..
Gódávari, Upper.	69	25,956	83	24,191	1,739	11,159	1,808	12,626	1,808	37,115	1,891	36,817	..	298
Gódávari, Lower.	* 156	* 71,704	168	73,524	* 2,283	* 14,206	2,326	13,962	* 2,439	85,910	2,494	87,486	1,576	..
Kistna ..	51	6,051	51	6,528	623	7,345	655	7,231	674	13,396	706	13,759	363	..
Kurnool, East.	..		14	13,941	..	..	2,578	6,806	..	..	2,592	20,747	20,747	..
Do. South.	32	21,239	14	13,220	4,043	10,952	2,610	9,765	4,075	32,191	2,624	22,985	..	9,206
Do. West.	87	46,772	98	50,678	4,694	10,370	5,942	9,997	4,781	57,142	6,040	60,675	3,533	..
Bellary ..	* 33	*27,294	36	35,116	* 1,890	* 7,617	2,091	7,829	* 1,923	* 34,911	2,127	42,945	8,034	..
Anantapur ..	31	32,123	31	31,630	1,523	6,125	1,580	5,869	1,554	38,248	1,611	37,499	..	749
Total ..	589	2,70,576	645	2,95,338	20,525	79,376	23,293	88,793	21,114	3,49,952	23,938	3,84,131	34,179	..
Central Circle.														
Direction ..	..	..	..	..	791	2,935	897	2,846	791	2,935	897	2,846	..	89
Cuddapah, North.	53	10,339	47	10,068	1,448	6,610	1,669	6,873	1,501	16,949	1,716	16,941	..	8
Cuddapah, East.	69	13,137	69	13,876	† 858	3,996	1,040	6,512	927	17,133	1,109	20,388	3,255	..
Nellore ..	19	18,599	21	19,799	18,297 LB. 48 M. F. C. L. 13 2 7 55	47,975	56,111 LB. 48	47,732	18,316 LB. 48 M. F. C. L. 13 2 7 55	66,574	56,132 LB. 48	67,531	957	..
Chingleput ..	61	10,216	59	11,013	1,272	6,675	1,272	6,973	1,333	16,891	1,331	17,986	1,095	..
North Arcot ..	97	32,056	86	39,109	3,552 CWT. 33	11,901	4,598	11,851	3,649 CWT. 33	43,957	4,684	50,960	7,003	..
Chittoor ‡ ..	15	4,503	53	16,937	427	2,680	1,446	4,409	442	7,183	1,499	21,346	14,163	..
South Arcot ..	65	26,569	65	15,188	1,854	7,769	1,419	5,208	1,919	34,338	1,484	20,396	..	13,942
North Salem ..	50	20,450	43	17,600	3,648	10,035	2,476	9,235	3,698	30,485	2,519	26,835	..	3,650
South do. ..	53	19,527	43	14,653	2,580	9,235	2,412	7,914	2,633	28,762	2,455	22,567	..	6,195
Trichinopoly	25	4,949	34	8,362	3,340	14,238	3,802	14,938	3,365	19,277	3,836	23,300	4,023	..
Guntúr ..	62	8,507	63	8,206	1,002	8,750	1,024	9,669	1,064	17,257	1,087	17,875	618	..
Total ..	569	1,68,852	583	1,74,811	39,069 LB. 48 M. F. C. L. 13 2 7 55 CWT. 33	1,32,889	78,166 LB. 48	1,34,160	39,628 LB. 48 CWT. 33 M. F. C. L. 13 2 7 55	3,01,741	78,749 LB. 48	3,08,971	7,230	..
Southern Circle.														
Direction ..	1	96	1	91	1,649	6,928	1,839	7,677	1,650	7,024	1,840	7,768	744	..
South Canara.	57	25,377	57	24,190	1,714	11,692	1,846	11,469	1,771	37,069	1,903	35,659	..	1,410
Malabar, North.	62	36,627	68	30,687	2,365	10,424	2,594	10,475	2,427	47,051	2,662	41,162	..	5,889
Do. South.	44	40,500	42	41,011	1,092	4,733	3,535	5,206	1,136	45,233	3,577	46,217	984	..
The Nilgiris ..	75	26,113	75	28,631	1,079	8,136	1,221	9,317	1,154	34,249	1,296	37,948	3,699	..
Kollegal ..	22	8,028	25	10,925	1,292	5,668	1,541	6,856	1,314	13,696	1,566	17,781	4,085	..
Coimbatore, North.	54	28,406	55	31,374	2,411	9,233	2,406	9,894	2,465	37,639	2,461	41,268	3,629	..
Coimbatore, Central.	41	9,519	48	12,670	8,167	5,228	7,260	8,503	8,208	14,747	7,308	21,173	6,426	..
Coimbatore, South.	56	19,604	59	23,658	16,018	31,460	16,247	34,945	16,074	51,064	16,306	58,603	7,539	..
Madura ..	94	55,846	97	56,531	3,201	7,201	2,977	7,496	3,295	63,047	3,074	64,027	980	..
Rámnád ..	74	39,079	13	9,829	1,531	3,875	293	1,651	1,605	42,954	306	11,480	3,969	..
Tinnevelly ..			66	32,020			1,359	3,423			1,425	35,443		
Vernacular Training School.	..	..	..	..	350	2,618	378	2,539	350	2,618	378	2,539	..	79
Total ..	580	2,89,195	606	3,01,617	40,869	1,07,196	43,496	1,19,451	41,449	3,96,391	44,102	4,21,068	24,677	..
Grand total, Presidency.	1,738	7,28,623	1,834	7,71,766	100,463 LB. 48 M. F. C. L. 13 2 7 55 CWT. 33	3,19,461	144,955 LB. 48	3,42,404	102,201 LB. 48 M. F. C. L. 13 2 7 55 CWT. 33	10,48,084	146,789 LB. 48	11,13,170	66,086	

* As revised by the Collector. † Revised figure.

‡ Figures shown against this district in columns 2, 3, 6, 7, 10 and 11 relate to those of South Cuddapah district in the previous year.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following paper :—

Proceedings of the Board of Revenue (Land Revenue), Forest No. 283, dated 17th November 1911.

The Hon'ble Mr. W. O. HORNE, I.C.S.

The Board begs to submit to Government the progress report of Forest Administration in the Madras Presidency for the year ending with 30th June 1911. The slight delay in the submission of this report is due to change of Commissioners.

CONSTITUTION OF STATE FORESTS.

2. *Alteration in area.*—The area of reserved forests at the commencement of the year was 18,769 square miles and at the close 18,629 square miles, a net decrease of 140 square miles. Twenty-one square miles were newly constituted reserved forests during the year; 16 square miles were found in excess on a more correct computation of the areas notified in previous years. Six square miles were disafforested and 170 square miles were deducted, mainly on account of recalculation of areas in *South Canara*, *South Malabar* and *Tinnevelly* in accordance with the Survey of India sheets.

3. The area of reserved lands under the control of the department rose during the year from 19,612 square miles to 20,030 square miles, a net increase of 558 square miles. Twelve square miles were notified under section 4 of the Forest Act, 540 square miles of forests in the Nugur taluk were notified under the rules under section 26 of the Forest Act pending resettlement under the Madras Forest Act and 48 square miles were newly notified in *Anantapur* under the rules under section 26 of the Act. On the other hand, 21 square miles were transferred to reserved forests, 8 square miles were excluded at settlement and 13 square miles deducted on account of revision of areas. During the year under review, the control of the forests in the Thumba mutta was transferred to the Forest Department and placed in charge of the Special Forest officer for the Parlâkimedi Maliahs. In the Chandragiri Agency, the lands to be set apart for the use of the Savaras within the Chandragiri reserve were under investigation. Three blocks covering an area of 10 square miles were reserved under the rules under section 26 of the Forest Act in the Parlâkimedi Maliahs, but no further progress could be made pending decision of a dispute with the Parlâkimedi estate in regard to their boundaries. No steps were taken towards the reservation of the upper slopes of the main hills, as recommended in the joint report of Messrs. Cox and Reilly, dealt with in G.O. No. 1139, Revenue, dated 27th April 1908, but the Government Agent promises to report, after inspecting the hills with the Special Forest officer, when it will be possible to take up this work.

4. *Forest settlement.*—It will be seen from Appendix B that 501 square miles of land notified under section 4 of the Forest Act remained to be notified under section 16 of the Forest Act at the end of the year. Three square miles were reserved under section 16 of the Act after the close of the year and the settlement of 419 square miles has been practically completed leaving a balance of 79 square miles under settlement. As in previous years, the work was carried out by the Revenue Divisional officers. The Special Deputy Collector appointed to revise

the boundaries of some of the existing reserves in the Palni hills in *Madura* completed the investigation of ten blocks. It is reported that the work is about half finished. The officer appointed for similar work in *Coimbatore* completed the verification of the boundaries of the reserves in the Satyamangalam taluk and his services have been retained for a further period of six months so as to enable him to complete the work in *Kollegal*.

5. *Demarcation.*—The total length of boundaries at the close of the year, including the boundary line of the Pondokkal forest in the *Ganjám* district, which was omitted in the previous year's returns, was 37,716 miles (or 62 miles greater than in the previous year) of which 1,765 miles do not require artificial demarcation and 35,142 miles have been demarcated in previous years with artificial boundary marks. 549 miles were newly demarcated during the year under review against 644 miles in the preceding year, leaving 809 miles still to be demarcated. The amount of new work to be done is large in *West Kurnool*, *South Canara*, *North Malabar* and *Madura*. The total length of boundaries repaired was 2,585 miles more than in the previous year, but the work is reported to be still behindhand in several districts, notably in *Bellary*, *Anantapur*, *North Cuddapah*, *South Arcot*, *Guntúr*, *North Malabar* and the *Nilgiris*. As stated in paragraph 4 above, Special Deputy Collectors have been deputed in *Madura* and *Coimbatore* to verify and revise the notified boundaries. The Collector of the *Nilgiris* has also recently brought to notice the defective state of the boundaries of reserves in his district and the need for a special staff to set them right; and there is reason to think that the work being done in Coimbatore and Madura will be found necessary in a good many other districts also. Many causes have probably contributed to these unsatisfactory results. It is hardly now profitable to enquire into them, but the defects are serious and will have to be removed. All Collectors will be requested to see that this important work is not lost sight of.

The average cost per mile of fresh demarcation rose from Rs. 23–12–2 to Rs. 29–9–8 per mile, while the cost of repair fell from Rs. 5–5–6 to Rs. 4–12–10 per mile. The increase in the former was altogether in the Southern Circle and has not been explained. The Conservator will be requested to look into it. In *Kistna*, *North Arcot*, *Cuddapah*, *Coimbatore*, *Madura* and *Tinnevelly*, the expenditure incurred on the demarcation of enclosures and annual coupes is treated as capital expenditure and included in Form No. 67 instead of being debited to the working of forests. The Collectors concerned should see that the mistake is not repeated.

6. *Surveys.*—The Survey of India Party No. 7 continued the survey on the 2-inch scale of some of the reserved forests in *South Canara*, but no new work was undertaken by the Survey of India either in the Northern or Central Circle. In the Bhadráchalam division of the *Gódávari* district, the survey of the boundary line between dupati or zamindari forests and Government unreserved jungles was proceeded with from 1st April 1911 under the supervision of the District Forest Officer and twenty villages have now been surveyed at a total cost of Rs. 4,206. The only departmental survey of importance carried out during the year was the survey of the boundary line round Buguda and Chokkapad blocks in *Ganjám* and of the line between the ryotwari and mulguzari lands in *Upper Gódávari*; miscellaneous work, such as survey of coupes and cultivation in reserves, alignment of roads and fire lines, was done by departmental surveyors.

7. Appendix C shows that out of 18,629 square miles of reserved forests, 16,232 square miles have been finally mapped. This figure is not accurate as in some districts settlement maps have been wrongly treated as final maps. The Acting Conservator of Forests, Northern Circle, points out that work is much hampered in his circle by want of proper maps, as survey has been completed only for portions of *Ganjám*, *Gódávari* and *Kurnool*. In connection with the *Nilgiris*, the Board recently noticed that the publication of maps prepared by the Survey of India Party was being delayed by errors and omissions caused by neglect of the local officers to clear boundaries and to bring to notice rights within the surveyed reserves. It is scarcely necessary to point out the importance of accuracy in maps and Collectors should make a point of seeing that Survey officers are given full and proper assistance in their work.

Special reference maps giving accurate and detailed information regarding forest areas in addition to the usual features (roads, rivers, towns, etc.) have now been prepared for six districts in the Forest Map office, Dehra Dun. Mr. A. Descubes, late Extra Assistant Superintendent, Forest Map office, who prepared these maps, having retired from service, the sanction of the Government of India has been obtained for his re-employment in this Presidency in order to enable him to prepare similar maps for the remaining districts. When this work is finished, the Forest Department will be well supplied with good reference maps.

MANAGEMENT OF FORESTS—(1) REGULATION OF MANAGEMENT.

8. *Working plans.*—During the year, working-plans for 120 square miles were sanctioned by the Board and plans were either under preparation or revision for 2,390 square miles. A revised preliminary working-plan for the Benne, Mudumalai and Kumbarakalli leased forests in the *Nilgiris* and a revised working-plan for the coast casuarina plantations in *Nellore* were also approved by the Board during the year. More than half the forest area still remains to be dealt with. The slow progress is due to the fact that District Forest Officers have no time for the work and it has hitherto been found impossible to find special working-plans officers. An Imperial officer has, however, recently been sent to *West Kurnool* to relieve the District Forest Officer of his ordinary work, so that he may devote his attention to the preparation of working-plans, and it is hoped that when the full number of officers recently sanctioned under the controlling service is entertained, better progress will be possible in this most important work. The prescriptions of the sanctioned working-plans were generally adhered to; the deviations were, with a few exceptions, unavoidable. The Board is in full agreement with the Conservator of Forests, Central Circle, that it is desirable at first to prepare simple preliminary plans for most of the forests instead of elaborate plans, the provisions of which there is no prospect of carrying out.

(2) COMMUNICATIONS AND BUILDINGS.

9. The following statement shows the expenditure incurred during the year on the construction and maintenance of "roads" and "buildings" in the three circles as compared with the preceding year:—

Circle.	Roads and bridges.				Buildings.			
	New works.		Repairs.		New works.		Repairs.	
	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	20,889	18,652	4,302	12,336	62,819	50,194	16,397	18,736
Central Circle ..	17,245	23,923	5,304	4,867	26,704	22,588	15,032	12,552
Southern Circle	14,768	13,202	24,297	27,822	31,370	32,064	11,604	12,418
Total ..	52,902	55,777	33,903	45,025	1,20,893	1,04,846	43,033	43,706

The total expenditure on roads and bridges rose by Rs. 13,997, while that on buildings fell by Rs. 15,374. The decrease under "Buildings" new works was largely due to the completion in the previous year of most of the special programme for the Nallamalais. The mono-rail in the Bundamur lanka plantation was not worked at all during the year, the fuel contractor having used other means of transport. The plant is said to be deteriorating and the Conservator of Forests, Northern Circle, will be requested to submit a special report as to how it can most advantageously be disposed of. The tramways in *Nellore* and *South Coimbatore* worked at a profit. The wire rope way in the *South Coimbatore* division was dismantled during the year. The total outlay on communications and buildings was only about $2\frac{1}{2}$ lakhs out of a gross revenue of nearly 38 lakhs. It would be good policy to devote a larger share of revenue to these purposes. The obstacle

is want of staff for the investigation of projects and preparation of proper estimates, as well as for carrying out works. Proposals for the construction of tramways in Wynaad and the Tekkadi leased forests and road trains in *South Coimbatore* and *Malabar* are under consideration. The problem is to place a larger quantity of timber from remote forests on markets where there is a demand for it at paying rates, thereby benefiting not only the revenue but also the forests themselves.

10. *Miscellanous works.*—The expenditure under this head was Rs. 15,721 against Rs. 17,378 in the preceding year. The works consisted of the construction of a masonry dam in *Kurnool*, the blasting of rocks in *South Canara* rivers to facilitate navigation, repairs to tanks, digging and repairing of wells, fencing and walling of compounds.

(3) Protection of Forests.

11. *General protection.*—The offences reported during the year are classified in the following table :—

—	Injury to forests by fire.		Unauthorized felling or appropriation of wood and minor forest produce.		Unauthorized grazing.		Other offences.		Total.		Average of 1907-08 to 1909-10.
	1909-10.	1910-11	1909-10.	1910-11.	1909-10.	1910-11	1909-10.	1910-11.	1909-10.	1910-11.	
1. Cases taken into court.	67	63	3,009	2,858	1,444	1,494	341	303	4,861	4,718	5,317
2. Cases compounded.	39	72	11,556	12,592	6,630	6,446	615	895	18,840	20,005	18,059
3. Cases undetected.	842	907	287	374	423	465	24	20	1,576	1,766	1,691
Total ..	948	1,042	14,852	15,824	8,497	8,405	980	1,218	25,277	26,489	25,067

The offences relating to unreserved lands are not shown separately in the Northern and Central circles, and the number actually reported is probably a very imperfect indication of the number of offences actually committed. The Board is glad to note the assurance of the Acting Conservator, Northern Circle, that protection has improved in several parts of that circle, notably in the Nallamalais. As the figures stand, the total number of offences reported was greater by 1,212 than in the preceding year and 1,422 in excess of the average of the preceding three years. As it is certain that only a small proportion of actual offences is ever reported, it is not advisable to draw deductions from these figures. Compared with the previous year, there was an increase under all heads except "illicit grazing." In *Anantapur*, offences under the column "injury to forests by fire" rose from 28 to 172 and in *South Canara* from 204 to 354. The increase in *South Canara* is attributed to the more accurate registration of fires, but no explanation is given for the large increase in *Anantapur*. This should have been furnished and will now be called for. The increase of "unauthorized felling or appropriation of wood and minor produce" occurred principally in *Vizagapatam*, *Madura* and *Tinnevelly*; under "other offences" chiefly in *Guntúr* and *Trichinopoly*. These variations have not been explained. Of the total number of cases, as in the previous year, 6 per cent. remained undetected, 18 per cent. were taken into court against 19 per cent. in the preceding year and 76 per cent. were compounded against 75 per cent. in 1909–1910. The total number of cases disposed of by the courts was 5,023 against 4,571 in the preceding year and convictions were obtained in 86 per cent. of the cases against 87 per cent. The punishments inflicted were considered generally adequate. The District Magistrate, Coimbatore, has taken due notice of the lenient punishments inflicted by his Sub-Magistrates in certain cases of illegal rescue of cattle in *Kollegal* and *North Coimbatore*. The amount of compensation realized was Rs. 1,69,686 against Rs. 1,53,715 in 1909–10 and the average fee per case was Rs. 9–7–1 against Rs. 8–15–9 in the previous year.

12. The Conservator of Forests, Southern Circle, has not reported how the rules recently laid down by Government for the guidance of Forest officers in compounding offences worked in practice. The rules are reported to have been observed in the

Northern and Central Circles and the Conservator, Central Circle, considers that it is too early to decide whether they have resulted in any benefit to the forests or not. In paragraph 3 of its Proceedings, Forest No. 186 of 10th August 1910, it was ordered that particular villages, the inhabitants of which regularly grazed their cattle in particular forests, should be held responsible for illicit grazing or other offences on a large scale in those forests and that the villagers should be warned that their responsibility would be enforced by the entire or partial closure of the forest to grazing if they did not prevent such offences or at least immediately report them to the nearest Forest Officer. Notices to this effect were published in a few districts but it is too early yet to judge of the results.

13. The rules for the grant of rewards to informers and others who may render service to Government in preventing or detecting forest offences, printed on pages 262 and 263 of the Forest Manual, were practically a dead letter. The total amount granted in the shape of rewards was only Rs. 216. In one case, in the Southern Circle, a reward of Rs. 2 was given to a village munsif for services in connection with the detection of a forest offence; such rewards are scarcely likely to have much effect in stimulating the enthusiasm of village munsifs. The question of introducing the regular payment of rewards, a suggestion made by the Board in last year's review, is at present under the Board's consideration.

14. It is reported that in several districts in the Central Circle, no information was furnished in regard to offences relating to unreserved lands, while in *North Coimbatore* and *Central Coimbatore*, the information given was incomplete. The Collectors concerned are requested to see that complete information is given in future reports.

15. *Protection from fire.*—The usual methods were adopted for the protection of forests from fire, clearing of exterior and interior lines and patrol by fire watchers. In certain parts of *North* and *East Cuddapah*, the special method, introduced in 1905–1906, of burning a large area of forests in strips of varying width to secure the protection of the remainder was continued. In the *South Kurnool* division, progress was made in the grubbing out of stumps on fire lines. The total area over which special protection was attempted was 4,536 square miles against 4,589 square miles in the previous year, the percentage of failure falling from 11·6 to 4·1. The result is satisfactory. The expenditure incurred on areas under special protection in *Vizagapatam*, *South Kurnool* and *South Salem* is not separately shown in form No. 72, but it is presumed that a large portion of the expenditure incurred in those divisions represents the cost of special protection. The average cost per square mile of areas under "special protection" successfully protected rose from Rs. 18–8–4 to Rs. 22–1–3. In addition to the areas under special protection, the ordinary staff attempted to protect 8,066 square miles, of which 7,721 square miles were successfully protected; it is, however, doubtful whether much reliance can be placed upon the latter figure.

16. The numbers of fires that occurred during the year, as given in the Conservators' reports and arranged according to their causes, are compared below with the figures for the previous year:—

—	1909–1910.		1910–1911.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
Fires originating in departmental fire conservancy operation ..	87	27,049	51	5,399
Fires crossing the exterior fire lines	167	190,285	161	34,080
Fires due to carelessness or accident	355	45,733	329	118,477
Fires originating from intention or malice	352	243,114	426	94,877
Fires due to unknown causes	694	412,293	605	172,066
Total ..	1,655	918,474	1,572	424,899

The number of fires and the area burnt were much less than in the previous year. Of the area burnt, 37 per cent. was in *West Kurnool* where a large number of fires is shown to have been caused by the carelessness of travellers passing through the

forest. This suggests the need for fire tracing the pathways. In both the divisions of *Cuddapah*, large areas were burnt intentionally by the adjacent villagers to obtain new grass. As a punishment to the villagers, the grazing fees were enhanced in the reserves concerned as they could not be closed on account of the small extent of unreserved land left for grazing. The measures taken to secure the co-operation of the Khonds in *Ganjám* and the Chenchus in the Nallamalais in the protection of forests were wonderfully successful. The Acting Conservator of the Northern Circle reports that the advancing civilization of the Chenchus resulted in a proposal by the women to stop the collection of Ippa (*Bassia latifolia*) flowers so as to promote temperance among their men.

17. *Protection from cattle.*—Out of 18,629 square miles of reserved forests, only 2,360 square miles, or 12·7 per cent. of the area, were closed to all animals throughout the year. This was 205 square miles, in excess of the corresponding figure for the previous year and the increase occurred chiefly in *Kurnool*, *East Cuddapah*, *Chittoor* and *Tinnevelly*. These variations have not been explained. 672 square miles of reserved forests were open to goats against 736 square miles in the previous year, and 219 square miles of reserved land were also open to them against 53 square miles in the previous year, the increase being in *Upper Gódávari* (90 square miles) and in *Anantapur* (77 square miles). Form No. 73 shows that 19 square miles of reserved forest were left open in *Anantapur* during the year; 77 square miles of reserved land were also open: but according to the statistics in Form 74, only 86 goats browsed in the district. These figures can hardly be correct. The total number of animals admitted to grazing on payment according to this return was 3,556,009 or 484,683 less than in the previous year. The decrease occurred in all three circles, but the Conservator of Forests, Southern Circle, explains that the decrease of 100,224 in his circle was nominal as it was due chiefly to a change of system in *Malabar*, *Coimbatore* and *Tinnevelly* by which permits were issued, as in other districts, for the fasli instead of for the official year. The number of goats decreased by 56,155. Goats were still largely admitted into reserves in *Kistna*, *Bellary*, *North Cuddapah*, *Nellore*, *North Arcot*, *North Salem* and *Madura*. The Acting Conservator of Forests, Northern Circle, recently brought to the Board's notice that the continuance of goat browsing in *Kistna* and *Bellary* was most undesirable and should be prohibited at once. The Board has already in its Proceedings Forest No. 70, dated 18th March 1910, laid down the general principles which apply in such cases and it is for the local officers to apply them. Detailed proposals should be submitted wherever serious damage to the forests is anticipated from goat browsing. The number of cattle impounded was 202,093 against 209,930 in the previous year.

18. A preliminary scheme for the regulation of grazing in the reserved forests of the Udamalpet range of the *South Coimbatore* division was sanctioned by Government during the year. No important reduction was proposed in the number of cattle to be grazed, the chief aim of the scheme being to familiarize the ryots with the allocation of particular grazing areas to particular villages. A somewhat similar scheme for preventing the denudation of the more accessible forests and distributing the incidence of grazing more equally among all the forests in the Talamalai range of North Coimbatore division was submitted to Government at the close of the year. In their Order No. 2614, Revenue, of 29th August 1911, Government directed that enhancement of grazing fees should first be tried as a remedy for over grazing. The Board welcomes this decision. It has always perceived that the limitation of grazing in any block or area without a corresponding enhancement of the grazing fees to the full value of the permit can only result either in wholesale evasion or in the making of a gratuitous present to middle men and Forest subordinates. The enhancement of fees, if carried far enough, must result in limiting grazing, and though it will cause the amount of grazing to correspond less to the possibility of the forests than to the possibility of the villagers' pocket, the Board regards it as a notable advance in an inevitable direction.

Preliminary proposals for the regulation of grazing in several other districts are now under the consideration of the Board.

19. *Protection from injury by natural causes.*—The spike disease continued to spread in the sandal areas in *Kollegal* and *North Coimbatore*: in *Kollegal*, 7,243 spiked trees were removed. It is unfortunate that the cause of this disease is as yet unknown. In *Central Coimbatore*, two new fungoid leaf diseases were identified, *Uncinula tectonæ* and *Gambloela Cornuta*. The new teak plantations in *West Kurnool* suffered slightly from attacks of *Hybloea* and *Pyrausta*, but the teak plantations in *South Malabar* fortunately escaped the attentions of these insects owing to heavy autumn rains. Much damage is reported to have been caused by hares to areas under cultural operations in *Anantapur*, by caterpillars to *Anogeissus latifolia* and *Azadirachta indica* in *Tinnevelly* and by floods to the plantations in *South Malabar* and *Guntúr*. The Board thinks that it should not be impossible for the District Forest Officer to defeat the hares. It is satisfactory to note that the introduction of broad-leaved species in the casuarina plantations in *Ganjám* and *Kistna* and the rest given to the felled coupes in these plantations in *Nellore* have checked the spread of the root fungus (*Trichosporum Vesiculosum*).

(4) Sylviculture.

20. *Natural reproduction.*—The year was, on the whole, favourable for natural reproduction. Owing to short rainfall, reproduction from seed was poor in *Nellore*, *Chingleput* and *Tinnevelly*; in the *Nilgiris* and *Central Coimbatore* also, but in these districts the cause has not been explained. In all the other divisions, important species seeded well and progress was marked in protected areas and areas closed to grazing. The Board is glad to learn that the areas which have escaped fire in the Nallamalais are covered with a fine natural growth of superior species, and that sandal has established itself in the Sandur range of the *Bellary* district.

21. *Artificial reproduction.*—Regarding plantations there is nothing of interest to record. 2,011 acres were added and 399 acres excluded from the area of regular plantations, leaving a net increase of 1,612 acres. The additions were chiefly to the teak plantations in *West Kurnool* and *South Malabar* and to the casuarina plantations in *South Arcot* and *Guntúr*. To the taungya plantations, 533 acres were added in *South Canara* and *North Malabar* and 14 acres excluded in *Tinnevelly*. The results of the operations in the first two-named districts were not satisfactory, but no mention is made of the condition of these plantations in *Upper Gódávari*, *North Arcot*, *Chittoor*, *Trichinopoly* and *Tinnevelly*. Cultural operations such as sowings, dibbling in seeds and putting out seedlings and cuttings, were carried on in all districts. The mound sowings in *Bellary* were attended with considerable success and the special grant made in 1910 enabled the department to extend its operations. The results of cultural operations were satisfactory in all districts except *Ganjám*, *Cuddapah*, *Chingleput*, *South Arcot* and *Rámnád* and parts of *Trichinopoly* and *Central Coimbatore*. Considerable progress was made in *Bellary* in bunding streams, so as to retain the silt and keep the soil in the neighbourhood moist: the results were encouraging.

22. *Operations for the improvement of the growing stock.*—The operations undertaken during the year for the improvement of growing stock consisted of improvement fellings, thinnings, fencing, creeper-cutting, pruning, removal of parasites and noxious growth. The information given in the report from the Southern Circle shows that adequate attention is being paid to the importance of these operations in that circle. In spite of the Board's remarks in the last year's review, no detailed information is given on the subject in the reports from the other circles and it is not possible therefore to state what progress has been made in the districts included in those circles. The Collectors concerned are requested to see that information is furnished in future reports.

23. *Experiments.*—Experiments with a large number of exotics were continued as usual, but in most cases, the results were unsatisfactory. The growth of Mahogany (*Swietenia Mahogany*) is reported to be excellent in the plantations in *West Kurnool* and good in *South Canara* and *South Arcot*. The experiments with sandal made at Waltair show that it grows excellently with certain inferior species as hosts. The red sanders (*Pterocarpus santalinus*) in *Ganjám* and the camphor plants in the *Nilgiris* and *Madura* continue to do well.

(5) Exploitation.

(*a*) *System of management.*

24. *Major produce.*—The methods adopted for the exploitation of major produce were, as usual, clear or regeneration fellings, selection fellings, improvement fellings and coppice fellings. Permits were issued for the removal of timber in *North Cuddapah* in localities where the demand was small and for the removal of unclassified trees in the Kadiri range of the *Anantapur* district. In *Trichinopoly*, permits were granted for removal of fuel in two ranges; in *Upper Gódávari*, *North Cuddapah*, *East Cuddapah*, *Chittoor*, *North Arcot* and *South Salem* for removal of palmyras. In the *Nilgiris*, permits were issued for the removal of small timber, fuel, bamboos, etc., by the resident ryots. In *Kollegal*, timber and bamboos were removed on permits for the construction of plague camps.

25. *Minor produce and fodder.*—In *Ganjám*, most of the minor produce was left to the free enjoyment of the Khonds. In *Vizagapatam*, the hillmen were allowed to collect and sell it to merchants in weekly markets and seigniorage was collected from the purchasers. In the Sandúr range of the *Bellary* district, minor produce is collected departmentally. In the three divisions of *Kurnool*, all produce, except tangedu and amroy, was collected departmentally through the agency of the Chenchus. In all the remaining divisions, minor produce is leased out to contractors, but a few miscellaneous items were collected departmentally. Permits were issued in several districts for the removal of stone, gravel and other minerals and for removal of manure leaves in *Chittoor*, *North Arcot* and *Madura*. Free removal of grass was allowed from reserves in *Kistna*, *West* and *South Kurnool*, *Bellary*, *Anantapur*, *Nellore*, *Cuddapah*, *Chingleput*, *North Arcot*, *Chittoor*, *South Arcot*, *Trichinopoly*, *South Canara* and the *Nilgiris*.

26. *Hay-making.*—Hay was collected in *Kistna*, *South Kurnool*, *Bellary*, *North* and *East Cuddapah*, *North Arcot*, *Chittoor*, *North Salem*, *South Salem*, *Guntúr*, *South Canara* and *South Coimbatore*. That collected in *South Kurnool* and *South Coimbatore* was used for feeding Government bulls. There was no demand for it in *Guntúr*, *North Salem* and *Central Coimbatore*. The operations in other districts resulted in a loss. In G.O. No. 2241, Revenue, dated 6th July 1910, it was ordered that experiments should be made at specially selected centres with a view to acquire knowledge and experience of hay-making and storage and to obtain data on which a large scheme could, if necessary, be prepared for the acquisition of a famine reserve of fodder. Proposals and estimates were accordingly submitted to Government for experiments in selected places in *Bellary*, *East Cuddapah*, *Guntúr* and *Coimbatore*; these estimates have since been returned for revision.

27. *Grazing.*—The following statement compares the grazing revenue realized during the year in each of the three circles with that of the preceding year:—

	1909–10.	1910–11.
	Rs.	Rs.
Northern Circle	2,08,177	1,86,454
Central Circle	4,24,831	3,55,471
Southern Circle	1,36,762	89,718
Total ...	7,69,770	6,31,643

There was a remarkable fall of Rs. 1,38,127. The decrease in the Central Circle was nominal, as compounding fees in cases of illicit grazing, which had previously been credited in the several districts to the budget head "II (*d*) Grazing and fodder grass," were credited to the head "V. Miscellaneous (A) Fines and forfeitures" in accordance with the orders of Government. The decrease in the Southern Circle is reported to be due principally to change of permit season in *North Malabar*, the *four divisions of Coimbatore*, *Rámnád* and *Tinnevelly*, as explained in paragraph 17 *supra*. In the Northern Circle, there were small decreases in all districts except in *Ganjám* and *Vizagapatam*.

(*b*) *Agency of exploitation.*

28. The following statement compares the total outturn of timber, fuel, bamboos and minor produce from all agencies under the control of the Forest Department with the outturn of the preceding year:—

Agency of exploitation.	Timber in cubic feet including sandalwood in cubic feet.		Fuel in cubic feet.		Bamboos in number.		Minor produce including grass.	
	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.	1909-10.	1910-11.
By Government Agency—								
Northern Circle ..	281,632	220,702	4,229,585	4,622,826	5,822,686	6,767,523	13,537	4,970
Central Circle	96,224	100,763	6,737,593	5,913,275	421,130	492,088	18,519	14,395
Southern Circle ..	407,308	262,741	2,986,504	2,776,940	105,810	177,515	37,307	24,717
Total ..	785,164	584,206	13,953,682	13,313,041	6,349,626	7,437,126	69,363	44,082
By purchasers (including confiscation)—								
Northern Circle ..	758,609	784,011	1,260,824	1,066,885	10,508,242	8,484,399	528,564	426,461
Central Circle ..	1,283,487	1,100,941	3,124,425	4,672,727	17,440,390	17,908,434	796,263	647,096
Southern Circle ..	456,977	363,731	2,997,585	2,892,240	4,982,721	5,209,774	270,589	184,875
Total ..	2,499,073	2,248,683	7,382,834	8,631,852	32,931,353	31,602,607	1,595,416	1,258,432
By right holders —								
Northern Circle ..	787	787	154,506	154,506	12,293	12,293	24,474	24,650
Central Circle	..	..	..	..		..	741	298
Southern Circle ..	92,635	63,975	106	2,500	2,775	..	1,081	823
Total ..	93,422	64,762	154,612	157,000	15,068	12,293	26,296	25,771
By free grantees—								
Northern Circle ..	77,597	76,009	..	..	93,367	121,600	349	277
Central Circle	58,349	47,657	667	53,036	27,970	28,415	901	601
Southern Circle ..	14,023	20,109	3,645	2,126	2,400	14,726	820	452
Total ..	149,969	143,775	4,312	55,162	123,737	164,741	2,070	1,330
Grand Total, Presidency.	3,527,628	3,041,426	21,495,440	22,157,061	39,419,784	39,216,767	1,693,145	1,329,615

29. The total outturn of timber, bamboos and minor produce decreased, while that of fuel increased. The decrease in the outturn of timber occurred both in the quantity extracted by Government agency and by purchasers. The principal decreases in the quantity extracted by departmental working were due in *Ganjám* to contracted operations in sal and miscellaneous timber owing to the previous year's stock not having been sold, and in *South Coimbatore* to the working of a smaller area in the Udamalpet range owing partly to plague and partly to the inefficiency of the Range officers. The quantity removed by purchasers fell short of that in the previous year chiefly in *Upper and Lower Gódávari*, *North Arcot*, *Trichinopoly*, *Madura* and *South Canara*. In *Upper Gódávari*, no contracts were taken up by merchants. The decrease in *Lower Gódávari* was due to a dull market and large stocks on hand, while in *North Arcot*, *Trichinopoly* and *South Canara* less land was assigned on patta and consequently fewer trees sold. The decrease in *Madura* is reported to be due to lower bids in the Cumbum range. The quantity of fuel extracted by Government agency increased in the Northern Circle and decreased in the Central and Southern Circles. The increase in the Northern Circle was due to the exploitation of larger areas in *Kistna* and *Anantapur* to meet increased demand. The principal decreases in the Central and Southern Circles occurred in *North Salem*, *Trichinopoly*, *Guntúr*, *North*, *Central* and *South Coimbatore* and *Madura*. The decrease was due in *North Salem* and *Guntúr* to want of demand, in *Trichinopoly* to the closure of depots at Trichinopoly and the stoppage of departmental babul fellings to supply the water-works, in *North Coimbatore* to the poor outturn from one of the coupes and in *Central Coimbatore* and *Madura* to the sale of coupes standing. The decrease in *South Coimbatore* has not been explained. The quantity removed by purchasers increased in the Central Circle and decreased in the remaining two circles. The increase in the Central Circle was mainly due to the sale of fuel coupes in the Vaiyampatti range of the *Trichinopoly* district. The principal decreases in the Northern and Southern Circles were in *Kistna*, *Central Coimbatore* and *Tinnevelly*. The

decrease in *Kistna* was due to short demand and that in *Tinnevelly* to poorer growth in one of the coupes sold. The decrease in *Central Coimbatore* has not been explained. The total number of bamboos extracted departmentally and by purchasers was 241,246 less than in the previous year. The number removed by purchasers in *Lower Gódávari* alone fell by 2,350,744, but this large decrease is largely counter-balanced by increased removals in the Central and Southern Circles and departmental extractions in the districts of *Vizagapatam* and *Kurnool*. The value of minor produce extracted departmentally and by purchasers was Rs. 3,62,265 less than in the previous year. The decrease in the value of minor produce occurred in all three circles and principally in *Anantapur*, *Bellary*, *West Kurnool*, *Guntúr*, *North Arcot*, *South Salem* and *Madura*. The decrease in the grazing revenue has already been explained in paragraph 27 above.

30. The figures show little progress in the direction of transferring the extraction and distribution of forest produce to private agency. Every effort is, however, being made to give effect to the policy of Government in the matter and the Board anticipates that by the end of the current year considerable progress will be observable. The necessity for the continued existence of Government depots is everywhere being examined and where possible these depots are being closed. In *Ganjám*, *Lower Gódávari*, *South Kurnool*, *North Cuddapah*, *Chingleput*, *Trichinopoly*, *Madura*, *Rámnád* and *Tinnevelly*, some of the coupes were sold standing to contractors. In *Vizagapatam*, *Lower Gódávari* and *Kollegal*, the produce felled by the department in some coupes was sold at the coupe. In the *Nilgiris*, the attempt made to hand over the fuel supply of Ootacamund to contractors was unsuccessful as the prices offered by them were ridiculously low and the Conservator states that the difficulty will continue so long as contractors can get work in private plantations. In *Kurnool*, it is difficult to obtain contractors as the forests are remote from the market and in *South Canara* difficulties of transport interfere with the sale of standing coupes. The Board recognises the difficulties which in many places oppose the introduction of the contract system, but the Board desires to impress upon all officers that the difficulites can and must be overcome. There will no doubt be some loss of revenue at first and some rise in the cost of produce to the consumer, but the relief of the subordinate staff from a branch of work which keeps it away from more legitimate duties and of the controlling staff from continued and largely fruitless efforts to apply ineffective checks must in the long run result in increased efficiency. The estimated value of the forest produce removed by right-holders was Rs. 54,300 against Rs. 66,039 and of the produce granted free Rs. 18,937 against Rs. 20,157 in the previous year.

Financial Results.

31. The revenue and expenditure of the year are compared with those of the previous years and with the average of the preceding five years—

Circle.	Revenue.	Expenditure.			Surplus.
		A. Conservancy and Works.	B. Establishment.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	9,99,939	6,96,673	4,43,154	11,39,827	— 1,39,888
Central Circle	17,70,282	6,62,398	4,33,837	10,96,235	6,74,047
Southern Circle	10,01,719	5,47,356	4,35,134	9,82,490	19,229
Total 1910-11 ..	37,71,940	19,06,427	13,12,125	32,18,552	5,53,388
Total 1909-10 ..	41,84,203	21,01,932	12,82,995	33,84,927	7,99,276
Average for the five years preceding 1909-10.	34,12,498	15,35,703	10,23,611	25,59,314	8,53,184

The revenue and expenditure of the year show a decrease of Rs. 4,12,263 and Rs. 1,66,375, respectively, compared with the figures for the previous year. The surplus of revenue over expenditure fell by Rs. 2,45,888. As in the previous year, the surplus was large in the Central Circle and small in the Southern Circle, while the Northern showed a deficit. These differences are due to local circumstances and not to variations in efficiency.

32. The decrease under revenue occurred in all the three circles and was due to the following causes :—

(i) Lower prices and bad market for timber in *South Malabar.*
(ii) Low prices offered for timber coupes in Begur in *North Malabar.*
(iii) Slack demand for timber by contractors in *Upper* and *Lower Gódávari.*
(iv) Reduced quantity of sandalwood exploited in parts of the Javadis.
(v) Fewer bamboo areas leased in *South Salem.*
(vi) Poor sales of tangedu bark in *Bellary*, *Anantapur* and *West Kurnool* and low prices realized for minor produce in several districts in the Central Circle.
(vii) Diminished receipts from grazing in *Kurnool*, *Kistna* and *Bellary* and the change of permit season in *North Malabar*, *Coimbatore* and *Tinnevelly.*
(viii) Stoppage of manure-leaf leases in *Madura.*

The revenue realized by the sale of timber and fuel, either removed departmentally or by purchasers, was Rs. 17,37,145 or 46 per cent. of the gross revenue, a decrease of Rs. 1,42,987 compared with the figures for the previous year.

33. The expenditure on " A. Conservancy and Works, " which was Rs. 1,95,505 less than in the previous year, included Rs. 1,03,000 paid into Court in connection with the acquisition of the Attapadi valley blocks in the Malabar district. Leaving this out of account, the decrease was chiefly due to reduced expenditure on departmental fuel operations in *Upper* and *Lower Gódávari*, *Kurnool*, *Guntúr*, *North Salem* and *Trichinopoly.*

34. Under " B. Establishments," there was a decrease of Rs. 13,079 in the Central Circle and an increase of Rs. 5,695 and Rs. 36,514 in the Northern and Southern Circles respectively, the net result being an increase of Rs. 29,130. The increase in the Southern Circle was chiefly caused by (1) the promotion of the Conservator, (2) increments of pay granted to Imperial officers under the time scale system, (3) the posting of separate officers to *Kollegal* and *South Malabar*, (4) appointment of a special Deputy Collector and staff to investigate the boundaries of reserved forests in *Coimbatore* and (5) formation of the *Rámnád* division. The amount of revenue outstanding rose from Rs. 3,02,149–0–9 at the commencement of the year to Rs. 3,95,216–15–8 at the close of the year. Out of this amount, only Rs. 51,139–8–6 fell due within the year against Rs. 67,731–13–4 in the preceding year.

35. The following statement shows the financial results of the year after deducting capital expenditure not yielding an immediate outturn :—

	Rs.	Rs.
Gross revenue		37,71,940
Value of produce removed by right-holders and free grantees ...		73,237
Total ...		38,45,177
Gross expenditure		32,18,552
Deduct expenditure not yielding an immediate outturn—		
(1) Communications and buildings	2,65,075	
(2) Cultural operations	2,34,209	
(3) Working plans	1,632	
(4) Settlement	8,171	
(5) Surveys	23,719	
(6) Demarcation	33,763	
		5,66,569
Balance of direct revenue-producing expenditure		26,51,983
Surplus of revenue over expenditure directly chargeable to Revenue		11,93,194

Administration.

36. The Hon'ble Mr. W. O. Horne, who was Forest Commissioner from 1st July 1910 to 26th March 1911, visited and inspected *Kurnool*, *Anantapur*, *the Nilgiris*, *Coimbatore*, *Malabar*, *Nellore*, *Cuddapah* and *Tinnevelly*. The Hon'ble Mr. J. Andrew was Forest Commissioner from the 1st to 11th April 1911 and the Hon'ble Mr. E. Scott from 12th April to 3rd May 1911. The Hon'ble Mr. R. C. C Carr was Forest Commissioner from the 3rd May 1911 up to the end of the year and visited *the Nilgiris*.

37. Mr. A. W. Lushington was in charge of the Northern Circle up to the 13th April 1911 and Mr. P. M. Lushington for the rest of the year. Messrs. F. A. Lodge and T. P. Peake were in charge of the Southern and Central Circles respectively throughout the year. The Conservators visited during the year all the divisions except *Upper* and *Lower Gódávari*, *Kistna*, *Bellary* and *North Malabar* and inspected all the District Forest officers except *Vizagapatam*, *Upper* and *Lower Gódávari*, *Kistna*, *South Kurnool*, *Bellary*, *Anantapur*, *Chittoor*, *North* and *South Malabar*. It should have been explained why so many districts in the Northern Circle were not visited during the year and the Conservator will be requested to supply the omission. The District Forest Officers spent sufficient time in touring in all districts except *Nellore* and *Guntúr*, *the Nilgiris*, *Kollegal* and *South Malabar*, and the reasons for short touring in these districts have been satisfactorily explained. All the range offices, except two in *Lower Gódávari*, four in *North Arcot* and one in each of the divisions of *Nellore*, *North Salem*, *Central Coimbatore*, and *South Coimbatore*, were inspected by the District Forest Officers concerned. The accounts of all the District Forest offices except *East Kurnool* and *Rámnád* were scrutinized by auditors from the Accountant-General's office and the results were reported to be satisfactory.

38. As usual, Conservators and officers of the superior staff worked zealously and well and the Board is glad to note the testimony borne by Collectors to the good work done by their District Forest officers. The work and conduct of the subordinate executive and ministerial staff were generally satisfactory. The difficulty in manning ranges properly continued, but the Board hopes and expects that the opening of the Forest College at Coimbatore will remedy this in time. It is hoped that temporary arrangements will enable classes to be started in February 1912. The conduct and work of the protective staff continued to be open to criticism but much improvement cannot be expected until the executive establishment is strengthened and the size of beats is reduced. Proposals for strengthening the subordinate establishment sufficiently to meet existing needs were called for and have been submitted by Conservators. The Board has these proposals at present under its consideration and will at an early date submit them to Government with its own recommendations. The two vernacular schools continued to do excellent work in training the subordinate protective staff.

39. The important administrative changes during the year were the division of the *Kurnool* district into three forest charges, the abolition of the *South Cuddapah* division and the formation of the new Chittoor forest charge, comprising the Madanapalli and Vayalpad taluks of the old *South Cuddapah* division and the Chittoor, Chendragiri and Palmaner taluks of the old *North Arcot* district. The Tiruvannámalai taluk of the *South Arcot* district and the Tiruppattúr taluk of the *Salem* district were added to *North Arcot*. The Kadiri taluk, included in the old *South Cuddapah* division, was transferred to *Anantapur* and the Namakkal and Karur taluks of the *South Salem* and *North Coimbatore* divisions were transferred to the *Trichinopoly* district. Proposals for sub-dividing the *North Arcot* district are under the consideration of Government. Owing to the transfer of the Nugur taluk to the Gódávari district, it is proposed to form a third forest charge in that district.

40. During the year the sanction of the Secretary of State was received to the reorganization of the controlling service and the scheme was brought into force from the 29th January 1911. This resulted in the appointment of an additional Conservator and an increase in the number of Provincial officers from 25 to 39. The division of the Presidency into four circles, Northern, Central, Southern and

Western, was not, however, introduced until October 1911. The head-qurters of the four circles at present are Waltair, Madras, Trichinopoly and Coimbatore. Sanction was also received to the long expected reorganization of the Provincial service on the time scale and the system was introduced from the 1st April 1911. The Provincial service in the Forest Department now offers inducements to men of birth and education in no way inferior to those offered by other services. The results will, the Board believes, be manifest in the future.

General.

41. The rules framed under the Forest Act for the transit of timber and sandalwood worked smoothly in districts where they were in force and no cases of abuse by ryots of the privileges allowed by the rules under section 26 of the Forest Act were reported during the year. It is also desirable to know how the rules framed under the Forest Act for private estates, such as Vizianagram, Jeypore, etc., are working. Conservators should briefly notice this point in future reports.

42. During the year a Committee was appointed to consider and report on the question of the supply of green leaf manure by the Forest Department. The conclusions arrived at by the Committee were generally accepted by Government. The result is that in future the functions of the Forest Department will generally be limited to the production and supply of seed for green manure plants. Where manure leaf is supplied by the department, it will be at a rate corresponding as closely as possible to the market rate. The rate for *Madura* has been fixed at Rs. 3 per cart load; the old rate was As. 5. In pursuance of the policy of Government, experiments are being made in several districts in entrusting the management of fuel and fodder reserves to villagers. In *Chingleput*, arrangements have already been made; a set of simple rules has been drawn up, to which the local panchayatdars have given their assent. The areas handed over are covered with a fair growth and the villagers have promised to protect them by engaging watchmen at their own cost and by not allowing goat browsing and the removal of fuel or grass by other villagers. Similar measures are contemplated in *Ganjám*, *Coimbatore* and *South Canara*.

43. Every encouragement is afforded to the mining industry. Owing to depression in the market, the mica industry in Nellore has declined. Considerable progress has been made in elephant capturing operations and they were extended to the *Nilgiris* during the year. The number of elephants in charge of the Forest Department at the close of the year was 114.

44. A memorandum of minor discrepancies found in the Circle reports is appended.

(True Extract.)

W. G. McFARLAND,
Secretary.

To the Secretary to Government, Revenue Department.

APPENDIX.

NORTHERN CIRCLE.

(1) *Form No.* 68.—The figure entered in column 18 against "Total", viz., 692, is a mistake for 592.

(2) *Form No.* 69.—In column 4 of the return for 1909–10, the area for which working plans have been compiled but not sanctioned by the Board in the Bellary district, was shown as 207 square miles. Deducting 112 square miles of the Harpanahalli forests for which a working plan was sanctioned in Board's Proceedings Forest No. 109, dated 20th April 1911, the balance is 95 square miles and not 105 square miles, as entered in column 4 of the return for 1910–11.

(3) *Form No.* 71.—The entries in columns 11 and 12 against B (cases compounded) in *Lower Gódávari and Bellary* are unintelligible. If they represent cases withdrawn under the orders of the District Forest-officer, they should have been shown in columns 13 and 14.

(4) (*a*) In the districts noted below, the number of cases of "Injury to forests by fire" shown in column 3 of Form No. 71 does not tally with that for which details are given in the appendix to the statement :—

	Cases shown in Form No. 71.	Cases shown in the appendix.
Lower Gódávari	8	2
Bellary	2	1

(*b*) The result of the four cases shown in the appendix to the return for 1909–10, as pending in Lower Gódávari and Bellary, has not been shown in the return for the year.

(5) The figure 45,093 entered against "Total" in the statement printed at page 14 of the report is a mistake for 456,358.

CENTRAL CIRCLE.

Form No. 76.—The botanical names of the trees shown in column 1 of the return have not been given as required in Board's Proceedings Forest No. 135, dated 22nd May 1911.

SOUTHERN CIRCLE.

Appendix B.—The extent of land remaining to be notified under section 4 is shown in column 7 as 345 square miles, whereas the details given in columns 15, 17 and 19 amount to 344 square miles.

Order—No. 240, Revenue, dated 29th January 1912.

Forest No. 12.

Recorded.

2. Both the revenue and expenditure of the Forest Department declined during the year under review. The fall in gross revenue exceeded 4 lakhs, and thus amounted to a reduction by 10 per cent. of the gross revenue of the previous year. The Government consider that the causes which led to this falling off should be more fully investigated and explained in a separate report. It is especially important to ascertain whether the gross forest revenues may be expected again to expand in the near future or whether the reduction in receipts which marked the year 1910–11 is due to causes of a lasting nature, such as forbid the expectation of any fresh growth in the net receipts of the department. In examining this matter the Forest Commissioner should have regard to the budget estimates which were submitted to Government and which did not indicate the probability of so heavy a reduction in gross receipts. The lesser expenditure of the year is ascribed to reduced outlay on departmental fuel operations in several districts and is a matter for congratulation as indicating that progress has been made in the policy of transferring the work of distribution of forest products to private agency. The surplus of receipts over expenditure declined by 2½ lakhs, and in the Northern Circle there was an actual deficit of Rs. 1,40,000 against an average surplus in the five years ending 1908–09 of Rs. 1,28,000. The Forest Commissioner states that the difference between this result and that shown in other circles is due to local circumstances and not to variations in efficiency and the Government are glad to receive this assurance. At the same time they desire to receive further explanation of the local circumstances in the Northern Circle to which the deficit in 1909–10 and 1910–11 is ascribed. From the figures furnished by the Conservator it is observed that, while expenditure in this circle has advanced from Rs. 6·32 lakhs in 1904–05 to Rs. 11·23 lakhs in 1910–11, an increase of 77 per cent., revenue has risen only from Rs. 8·66 to Rs. 9·96 lakhs, an increase of 15 per cent. The causes suggested by the Conservator of the decline in the year under report as compared with the previous year, viz., the competition of timber from zamindari forests and the large fellings of previous years, merit close examination by the Forest Commissioner.

3. Various important administrative measures received sanction during the year under report. One of the most promising of these is the project for the establishment of a Forest College in the Presidency, which may be confidently expected to add to the efficiency of the executive staff both by enabling a larger proportion of the executive to receive a thorough training and by removing one of the difficulties which has hitherto stood in the way of obtaining a suitable class of recruit, namely,

the necessity of undergoing training at so distant a place as Dehra Dun. The Government note with pleasure the good results obtained in the vernacular schools which have been opened for the training of the lower subordinates. The Provincial Service has been materially strengthened during the year and the Government take this opportunity of drawing the attention of the Forest Commissioner to the importance of making the fullest use of the services of its members. It is not probable that any further considerable addition to the Imperial and Provincial staffs will be obtainable for some time, while no large increase in Rangers is likely to be possible until the Forest College, which it is hoped to open at Coimbatore in July next, has been at work, long enough to increase the supply of trained candidates. In these circumstances, the Government would hesitate to sanction any great addition to the low-paid subordinate establishment, unless they are fully satisfied that the existing executive staff is sufficient efficiently to control them.

4. Some steps have already been taken in the direction of concentrating the energies of the department and the Government are glad to recognise the vigour with which the Forest Commissioner is carrying out the policy of transferring to private agency the felling and distribution of forest produce. They trust that, as a result of this policy, District Forest Officers will soon be freed from the burden of managing retail sale depots. Their energies can then be turned to more suitable objects, *e.g.*, the preparation of simple preliminary working plans, a matter which has so far received too little attention. The Forest Commissioner is requested to consider also whether it would not be practicable to make a further advance in the direction of concentrating the energies of the department by handing over petty and unprofitable reserves to the Revenue Department or to village panchayats or otherwise.

5. If a policy of concentration is rigorously carried out, the existing staff may possibly be found sufficient for the intensive working of the more important forests. The Government recognise that for the satisfactory working of some of these forests the development of communications is essential. The report draws attention to this point and to the fact that the development of communications has in the past been retarded by the difficulty in finding men for the thorough investigation of the various projects which have from time to time been put forward. The Government fully realise the difficulties which the department has had to meet in this matter and regret that these difficulties have led to unfortunate delays in the sanctioning and execution of important schemes. They would suggest to the Commissioner the advisability of temporarily employing professional engineers for the survey, alignment and construction of tramways, where such works would be of service, or of large schemes for the provision of other forms of communication, thus setting free Forest officers for their proper work. The Government would also be glad to see definite proposals formulated for a systematic attempt to add to the value of the forest by scientific methods of reproduction and cultural operations.

6. A policy of concentration will not, in the opinion of Government, prevent the Forest Department from fulfilling those obligations to the public which are inseparable from its control of the main sources of fuel supply in the Presidency. No effort should be spared to supply fuel up to the utmost limit allowed by the forest working plans and when even then the demand is not adequately met, the Forest officer is bound to consider whether it is not possible to increase the supply whether by revising the working plan or otherwise.

7. The question of the better regulation of grazing in the forests was under consideration in the year and some important experiments were initiated, the result of which must be watched with care. Mr. Sampson, Deputy Director of Agriculture, has been deputed to make a general survey of the cattle of the Presidency and his investigations may help towards a decision on the policy hereafter to be adopted with respect to forest grazing. Another experiment started during the year was the handing over of certain forests to village panchayats in the hope that these bodies may be able to manage them satisfactorily in the interests of the village. Some years must elapse before the results of this experiment will be fully apparent. The Government hope that the next year's administration report will contain a discussion of the working of the new rules relating to composition of forest offences sanctioned in G.Os. No. 1990, Revenue, dated 13th June 1910, and No. 3958, Revenue, dated 14th December 1910.

8. The Government note with satisfaction the success which has attended the efforts of the department in winning the good will and co-operation of the hill tribes with which it has to deal.

9. The Forest Commissioner's tribute to the work of the officers of the department is noted with pleasure.

(True Extract.)

A. G. CARDEW,
Secretary to Government.

To the Board of Revenue, Forest Branch.
,, Accountant-General.
,, Government of India, Department of Revenue and Agriculture (with C.L.)
Editors' Table.

ANNUAL ADMINISTRATION REPORT

OF THE

FOREST DEPARTMENT

OF THE

MADRAS PRESIDENCY

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1912.

(1911-1912.)

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1913.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

NORTHERN CIRCLE, 1911-1912.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1 & 2
	2. Forest settlement	3
	3. Demarcation	4
	4. Forest surveys	5 & 6
II	Management of State forests—	
	1. Regulation of management—	
	(a) Preparation and control of regular working-plans ...	7 & 8
	(b) Annual plan of operations	9
	2. Communications and buildings—	
	(a) Roads and bridges	10
	(b) Buildings	10
	(c) Miscellaneous works	10
	3. Protection of forests—	
	(a) General protection	11 to 15
	(b) Protection from fire	16 to 18
	(c) Protection from cattle	19 & 20
	(d) Protection against injuries from natural causes ...	21
	4. Sylviculture—	
	(a) Natural reproduction	22
	(b) Artificial reproduction	23
	(c) Operations for the improvement of growing stock ...	24
	(d) Experiments	25
	5. Exploitation—	
	(a) System of management—	
	(i) Major forest produce	26 to 31
	(ii) Minor forest produce	32 to 35
	(b) Agency of exploitation—	
	(i) Departmental agency	36
	(ii) Purchasers	37
	(iii) Rights and privileges	38
	(iv) Free grants	39
	(c) Outturn and sources of forest produce	40
III	Financial results	41
IV	Administration	42 to 51
V	General	52 to 61
	Appendices A to E and Forms Nos. 65 to 85.	

FOREST ADMINISTRATION REPORT

OF THE NORTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1912.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

The following shows the abstract of changes in forest areas :—

Class.	Area on 1st July 1911.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1912.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forests	6,026	26	(a) 1,377 59	— 1,410	4,617
Reserved lands	724	75	(a) 80 555	— 560	164
Leased forests	63	..	(a) 63	— 63	..
Total ..	6,813	101	2,134	2,033	4,781

(a) Transferred to Central Circle in *Bellary* and *Anantapur* districts.

The changes under reserved forests are mostly administrative, as shown in footnote (a) : the remainder due to rectification in areas in the Survey offices. The increase under reserved lands occurred mostly in *Ganjām* district with small additions less than 1 square mile, in *Vizagapatam* and *Kurnool South* ·540 square miles in *Gōdāvari Upper* were wrongly included in the previous year, and these, with 15 square miles in *Kistna* cancelled by the Collector, account for the decrease.

2. The total forest area under the control of the department was 4,781 square miles which (excluding zamindari and inam lands) is 29·67 per cent. of the total area.

2. Forest Settlement.

3. Thirteen blocks (99 square miles) remained to be constituted reserved forests at the commencement of the year ; nine blocks (14 square miles) of *Bellary* and *Anantapur* were transferred to the Central Circle ; nine blocks (76 square miles) were newly added ; and one block (less than half a square mile) was transferred to reserved forests, leaving twelve blocks (151 square miles) at the end of the year. Of these twelve, settlement was completed but not reported on for three blocks (76 square miles), which include Coringa reserve (75 square miles) pending appeal to Privy Council : settlement is proceeding for nine blocks (85 square miles), viz., five (75 square miles) in *Ganjām*, one (10 square miles) in *Vizagapatam* and three (less than half a square mile each) in *Kurnool South* and *West*.

3. Demarcation.

4. Deducting 171 miles of demarcation of the boundary between Government unreserves and dupati lands in *Godāvari Upper*, for which expenditure of Rs. 15,771 were spent on combined charges of survey and demarcation in Nugur and Cherla, 173 miles of outer demarcation was done at a cost of Rs. 3,315 leaving a balance of 5 miles yet to be demarcated. Rupees 4,326 were spent on repairs of 2,323 miles of existing boundaries and 2,297 were cleared free of cost by Forest subordinates. The system

of demarcation was the same as in the previous years, the average cost per mile of fresh demarcation was Rs. 19–2–7, and of repair Rs. 1–13–10, against Rs. 38–1–8 and Rs. 3–1–7 respectively, in the previous year. The decrease is due to constructing fewer and cheaper cairns in *Vizagapatam* and 3 *Kurnools*.

4. Forest Surveys.

(*a*) *By Survey of India.*

5. No new work was undertaken during the year. Two standard sheets (4″= 1 mile) for *Ganjām* were published ; and index maps (1″= 8 miles) for all districts, and (1″= 32 miles) for the Presidency, were undertaken by the Forest Map office, Dehra Dun.

(*b*) *By Departmental Surveys.*

6. During the year Rs. 8,347 were spent on forest surveys and maps were prepared for 25 square miles of reserved forests. The chief work was in *Gōdāvari Upper*, where 140 miles of the Nugur boundaries were surveyed; but 29 miles in *Ganjām* were also surveyed. Minor work was done in *Vizagapatam*, *Upper Gōdāvari*, *Lower Gōdāvari* and *Kurnool South*. Forty-eight maps were prepared in *Ganjām*, and ten in *Lower Gōdāvari*, for reserved forests ; working-plan maps in *Kurnool West*, and coupe maps in *Vizagapatam*.

Dupati survey.—The special survey establishment attached to *Godāvari Upper* for this survey completed 65 villages, besides the 30 finished in the previous year; there remained 68 small villages which will be completed shortly.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working Plans.*

7. *Preparation.*—In *Vizagapatam*, working-plans for four reserves were received from the District Forest Officer, but returned for revision in accordance with the Code; whilst for two other reserves tentative coupes have been marked to test the demand ; in *Gōdāvari Upper*, working-plans for Marrigudem and Bhadrāchalam ranges were revised and resubmitted to Board ; in *Godāvari Lower*, preliminaries for the final working-plan of Kandikuppa were undertaken ; in *Kistna*, the revised working-plan of Gopuvanipalem reserve is still under revision, as are the working-plans for Bezwada and Ellore taluks ; those for Nandigāma and Divi taluks have not progressed, pending revision of the others ; in *Kurnool South*, a preliminary working-plan was sanctioned for Owk palmyra extension ; whilst others for Nallamalais of Giddalore range, the Veligondas, and the Railway Working Circle were prepared, but not in accordance with the Code ; in *Kurnool West*, a revised plan for the Yerramalais, and a preliminary one for half Gundlabrahmeswaram range, were submitted to Board.

8. *Control.*—In *Ganjām*, the Agastinowgam working-plan was ordered to cease, and improvement fellings in Surada and Buguda ranges to be suspended. In *Vizagapatam*, the closure to grazing in Vemagiri reserve was raised from five to ten years under sanction. The prescriptions in other working-plans were adhered to in the main except in the following cases :—

In *Ganjām*, less dead timber was extracted than prescribed owing to small demand; whilst two unprescribed fuel coupes had to be opened to meet requirements.

In *Godāvari Lower*, coupes in Malleswaram and Kogida reserves and the prescriptions for the Peddapur range remained unworked for alleged want of demand; whilst the second thinning in Kandikuppa reserve was stated to be unnecessary ; neither explanation is satisfactory.

In *Kistna*, an alteration in the sequence of coupes of Kondapalli reserve was sanctioned.

In *Kurnool West*, improvement fellings were treated under the system of "coppice with standards" instead of by "selection" in the Atmakur and Velgode ranges.

(*b*) *Annual Plan of Operations.*

9. The sanctioned plans were generally followed, except as detailed under working-plans above, and in the following instances:—

Certain roads in *Ganjām*, *Vizagapatam*, *Kurnool East* and *South*, were either not completed or not undertaken; some buildings in the same districts and *Lower Godāvari*, and certain wells in *Kurnool East* and *South*, for various reasons. In *Kurnool East*, no fuel was sent to Markapur town, nor bamboos to Cumbum town, but sold near forest instead; whilst in *Kurnool South*, less timber and fuel were extracted than anticipated, from want of demand. In *Kurnool East*, fencing a certain Hardwickia forest was found unnecessary. In *Kistna*, certain minor items could not be undertaken from want of rain and water in canals. In *Kurnool West*, cultural operations in the Yerramalais were modified, and not completed in certain coupes. In *Kurnool East* clearing plantation sites in advance, and in *Kurnool South* the Cuddapah district boundary line, were undertaken though not prescribed.

2. Communications and Buildings.

10. The following figures compare the outlay on communications and buildings:—

	1910-11.	1911-12.
	Rs.	Rs.
Roads and bridges	29,893	41,458
Buildings	53,795	59,450
Other works	3,858	6,714

The increase under all three heads is due to a larger number of works being undertaken during the year in all divisions, some particulars of which are given below.

(*a*) *Roads and Bridges.*

The important works of a permanent nature carried out were: In *Ganjām*, 14 miles of new roads were constructed and 36 miles of existing cart-tracks repaired. In *Lower Godāvari*, some bad work was done on Ballikonda ghat road, and it was stopped when 1½ miles had been done at a cost of Rs. 3,235; improvements costing Rs. 939 for 2 miles, and 58 miles of existing roads were repaired at a cost of Rs. 2,839. In *Kistna* Rs. 2,149 were spent on converting certain compartment lines in Kondapalli reserve and constructing a new cart-tract from Chintalapudi. In the three *Kurnools*, the roads, mostly ghat roads, were repaired; in *Kurnool East*, 33½ miles at a cost of Rs. 8,970; in *Kurnool South* the Isukagundam and the Nandikanama ghat at a cost of Rs. 2,927; in *Kurnool West*; the central Nallamalai ghat, and the Honkaram tracks were improved to a distance of 16½ and 2 miles respectively; and four other roads from Bairluti were repaired at a cost of Rs. 2,959.

Tramways.—The monorail in *Godāvari Lower* was ordered to be sold. It was not worked during the year and was required only at the time when departmental extraction was necessary, before contractors could be obtained to undertake the work.

(*b*) *Buildings.*

The important works of a permanent nature executed during the year were:—

Rest-houses, with out-houses, were constructed at six places in Pondakhol and at Tamana in *Ganjām*, Sanivaram in *Vizagapatam*, Kunavaram (part) in *Upper Godāvari*, Dornal and Telugurayanicheruvu in *Kurnool East* and Nagaluti and Pecheruvu in *Kurnool West*; range offices and quarters for two ranges at Tarsingi in *Ganjām*, at Ellamanchili in *Vizagapatam*, at Dornal and Turimella in *Kurnool East*, at Giddalore for two ranges in *Kurnool South*, and at Pecheruvu and Gundlabrahmeswaram (completion in both cases) in *Kurnool West*; other subordinates quarters at the above seven places in *Ganjām*, at Diguvametta, Bandlapenta and Pacherla in *Kurnool South*, and Nagaluti, Pasurutla, Badarapuram, Gundlabrahmeswaram and Pecheruvu (2 last almost completed) in *Kurnool West*; whilst numerous other minor buildings—inspection sheds, out-houses, subordinate sheds, Tannahs, and so forth—were undertaken in most districts.

(*c*) *Miscellaneous works.*

The chief works done were construction of a culvert, construction and repair of tanks and wells, excavation of canals and channels and erection of fences and walls.

3. PROTECTION OF FORESTS.

(*a*) *General Protection.*

11. The following statement shows the number and classification of Forest offences brought to light during the year:—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total.	
	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.
1. Cases taken into court.	9	11	597	540	236	206	47	57	889	814
2 Cases compounded ..	15	5	1,326	1,596	675	731	124	229	2,140	2,561
3. Cases undetected ..	6	137	123	89	45	7	8	6	182	239
Total ..	30	153	2,046	2,225	956	994	179	292	3,211	3,614

In spite of Board's remark in paragraph 11 of Board's Proceedings, Forest No. 283, dated 17th November 1911, Collectors have failed to furnish figures separately for unreserved lands; their attention has now been drawn to the defect.

12. The number of cases reported was slightly higher than in the previous year and the increase was chiefly in *Ganjām*—due to thefts in isolated reserves, to prevent which steps have already been taken—and in *Kistna*, due to stricter supervision. Excluding 168 cases relating to *Bellary* and *Anantapur*, and including 12 cases of previous year wrongly omitted in *Kurnool East*, there were 689 cases pending at the beginning, and 816 at the end, of the year; of these latter, 255 were with Magistrates. Out of the cases brought to trial during the year 740 ended in conviction and 58 in acquittal, against 818 and 94 in the previous year; the percentage of failure being 7·27 against 10·20 in the previous year.

CLOSURE OF FORESTS TO GRAZING FOR NOT REPORTING OR PREVENTING ILLICIT GRAZING OR OTHER OFFENCES ON A LARGE SCALE.

13. The introduction of this system was reported unnecessary, or impossible, in *Ganjām*, *Vizagapatam*, *Godāvari Upper* and *Kistna*—*vide* last year's report. In *Godāvari Lower* and *Kurnool East*, it is too soon to report on its effect. *Kurnool South* report gives no information. In *Kurnool West* the Board of Revenue sanctioned the closure to sheep of the Madhavaram, North and South Dhone reserves for the whole forest year 1911–1912 for repeated incendiarism; and a portion of Betamcherla reserve, for extensive illicit extraction of Yepi fibre.

14. One thousand nine hundred and fifty-nine cases were compounded for Rs. 19,161 against Rs. 17,519 in the previous year.

15. Rewards were granted only in *Ganjām*—Rs. 25 for detecting a case of theft,—in *Kurnool South*—Rs. 15 for discovering 50 illicitly removed rafters—and in *Kurnool West*—Rs. 98 for detection of incendiarism and of theft during night.

(*b*) *Protection from Fire.*

16. The areas attempted and protected are given in Form 72. The system of protection was not altered. In *Ganjām*, the season was rather a mild one; the 60′ wide line adjoining Zamindari and Agency forests has proved efficacious as only 2 fires crossed into Government forests this year against 9 in 1910–1911, whilst formerly about 40 per cent. of the fires in Gumsur originated from the Zamindari forests. In *Vizagapatam* the season was unfavourable; numerous fires occurred; the special scheme sanctioned for the protection of the Sanivaram reserve was carried out, except that difficulty has been experienced in obtaining patrols. In *Godāvari Upper*, were numerous fires; here the whole system requires modification, as it is not on the systematic lines of other districts; whilst in *Godāvari Lower* the same applies, and the

figures furnished are said to be unreliable. In *Kurnool*, the season was exceptionally severe; no rain falling between 10th October 1911 and June 1912; some of the large fires were due to malice.

17. Rupees 63,569 were spent on fire protection during the year. The area dealt with was 4,461 sq. miles against 2,108 in the previous year. Of these, 3,643 sq. miles were successfully protected against 1,858 in the previous year; the proportion of failures rose to 18·32 per cent. from 11·89 in the previous year; but the cost per sq. mile successfully protected fell to Rs. 17–7–3 from Rs. 27–6–10 in the previous year.

18. The following statement shows the number and origin of fires :—

District.	A. Fires caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas.							
					Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		By villagers, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Ganjām	3	80	..	..	..	..	..	..	..	..	..	..
Vizagapatam	..	..	5	2,265	..	..	18	*63,258	..	..	..	..
Upper Gōdāvari ..	3	86	6	35,034	..	..	2	6,200	..	..	..	..
Lower Gōdāvari ..	1	40	10	1,350	8	5,660	23	1,602	..	..	..	..
Kistna	..	..	8	835	1	70	..	..	..	..	..	..
Kurnool East	..	..	2	3,420	..	..	..	..	..	..	..	..
Do. South	5	1,651	4	27,998	..	..	1	10	..	..	..	..
Do. West	5	222	13	72,770	1	100	14	29,061	1	5	..	..
Total for 1911–1912 ..	17	2,079	48	1,43,672	10	5,830	58	1,00,131	1	5	..	..
Total for 1910–1911 ..	18	1,435	24	20,392	2	26,898	75	73,073	3	1,101	1	314

District.	C. Fires beginning inside the reserves or fire-traced areas—*cont.*										Total of A, B and C.	
	By intentional firing.								Causes unknown.			
	In order to obtain new grass.		In order to turn out game or reduce cover.		Maliciously fired.		Total.					
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Ganjām	..	..	..	..	1	12	1	12	12	667	16	759
Vizagapatam	..	..	..	..	..	..	18	63,258	7	16,803	20	82,326
Upper Gōdāvari ..	..	..	..	..	..	..	2	6,200	15	12,041	26	53,361
Lower Gōdāvari ..	..	..	3	598	..	..	34	7,860	37	6,696	82	15,946
Kistna	..	..	1	1,000	..	..	2	1,070	1	530	11	2,435
Kurnool East	..	..	..	..	..	..	..	..	10	34,538	12	37,958
Do. South	2	1,882	..	..	6	17,780	9	19,672	17	38,106	35	87,427
Do. West	1	281	9	2,720	9	14,945	35	47,112	34	90,974	87	211,078
Total for 1911–1912 ..	3	2,163	13	4,318	16	32,737	101	145,184	133	200,355	299	491,290
Total for 1910–1911 ..	11	714	4	2,972	14	1,601	110	106,673	127	75,921	279	204,421

* Collector reports that number of fires for 11,400 acres is not ascertainable.

Owing to prolonged drought and intense heat, more than double the area was burnt during the year than in the preceding one, though the number of cases rose only by 20. Although the year was so abnormal, there was a decrease in "Fires crossing fire-traces," "Accidental fires caused by workmen" and "By Railway engines."

(c) Protection from Cattle.

19. Out of 4,781 sq. miles, 811 were closed to all animals throughout the year against 749 sq. miles in the previous year, *Ganjām* and *Kurnool West* contributing to the increase. 156 sq. miles were open to goats against 180 in the previous year.

20. The following statement shows the cattle impounded during the year with the average for the three years preceding :—

Districts.	From open forests.		From closed forests.				Total.		Average for three years ending 1910-1911.
			Holding permits from open forests.	Having no permits.	Holding permits from open forests.	Having no permits.			
	1910-1911.	1911-1912.	1910-1911.	1910-1911.	1911-1912.	1911-1912	1910-1911.	1911-1912.	
Ganjām ..	1,958	3,273	1,439	564	..	240	3,961	3,513	3,791
Vizagapatam .	605	1,034	..	2,136	..	1,209	2,741	2,243	2,536
Gōdāvari, Upper.	..	329	..	..	..	379	..	708	240
Gōdāvari, Lower.	633	549	..	600	..	704	1,233	1,253	1,258
Kistna	2,461	2,881	361	1,020	274	897	3,842	4,052	3,810
Kurnool, East ..	2,738	7,201	..	..	..	..	2,738	7,201	3,313
Do. South.	7,440	6,374	..	1,035	162	681	8,475	7,217	8,295
Do. West ..	12,810	8,904	35	3,287	..	1,792	16,132	10,696	13,462
Total ..	28,645	30,545	1,835	8,642	436	5,902	39,122	36,883	36,705

The averages show that there was fall in *Gōdāvari Upper*, *Kistna* and *Kurnool East*, but the Circle as a whole shows a slight increase.

(d) Protection against injuries from natural causes.

21. In *Ganjām* the spread of root fungus (*Trichosporum vesiculosum*) in Agastinowgam plantation was not noticeable, but *Arebela tetraonis* continued its ravages ; there is however no damage in the Casuarina plantations of *Kistna*. In the plantation at Waltair the leaves of an Assam rubber tree were completely riddled by a defoliater; specimens of the caterpillars, and of the leaves eaten, were sent to the Forest Zoologist for identification; he reported that the caterpillars pupated, proved to be all males, and belonged to the family of Bombycidæ ; they were identified by Sir George Hampson of the British Museum as *Trilocha varia* Wlk, as there was no record of the insect attacking *Ficus elastica*, and the species was previously unrepresented in their collections. In *Godāvari Upper*, the attack by *Jassids* was limited. The *Xylia dolabriformis* borer has not yet been identified by the Forest Zoologist. In *Kurnool West*, (*Hyblæa puera*) defoliated young teak trees, but no remedy has yet been discovered.

4. Sylviculture.*

(a) Natural reproduction.

22. The seeding of Sal in *Gānjām* was not so good as usual; of Yepi profuse, but in local patches, in *East and South Kurnool*. Seedling reproduction in *Ganjām* of Sal, in the "massifs" only, and Nallamaddi, was good; in *Vizagapatam*, Yegi and Kondatangedu in Sanivaram, and Jittegi in Palakonda, are specially noted ; in *Upper* and *Lower Godāvari*, *Kistna*, and *Kurnool West*, all the better species are said to have come on well in areas that escaped fire; the mangrove reproduction in *Lower Godāvari* in Coringa and Kandikuppa, and in *Kistna* in the Avanigadda, Bandar Fort and Extension, and Kanur, Reserves is reported excellent. In Yerramalais of *Kurnool West* alone seedling reproduction was unsatisfactory owing to scanty rainfall.

* List of trees with their scientific names are to be found in Appendix E.

Coppice reproduction everywhere is favourably reported upon, especially Sal in *Ganjām*, Chirimanu in Kondapalli and Jangalapalli, and Sandra in Jaggayyapeta, reserves of *Kistna*; but in Rajahmundry range of *Lower Godāvari* it is said to be too much mixed with thorny species.

(*b*) *Artificial reproduction.*

23. Form 75 shows the areas under plantations and topes, or subject to cultural operations.

Regular plantations—Ganjām.—In Agastinowgam plantation 64 acres were planted with mixed casuarina and broad-leaved species at a cost of Rs. 350, and the previous year's plantings were maintained at a cost of Rs. 700. Ten thousand casuarina seedlings were sold to the Zamindar of Dharakota. Malabar cocoanuts planted in 1906 have grown slowly, but look healthy, and are just about to produce stem. In Chatrapur reserve 400, and in Napier's Park 290, miscellaneous plants (including 40 jack seedlings) were planted. In *Godāvari Upper*, only 103 out of 14,000 teak seeds sown in May 1911 in Kunnavaram nursery germinated; 110 fruit trees were planted at Kunavaram, but 42, out of 51, graft mangoes died, and there was great mortality amongst the timber trees, especially Jittegi, previously planted in bungalow compounds. In *Lower Godāvari*, compartments 13 and 4 of Kandikuppa and Bendamurlanka plantations were planted with casuarina during the year. In *Kistna* 98·69 acres were added to the existing plantations, and 1,12,695 plants were planted. In *Kurnool East*, teak was attempted in Peddmantrala, Peddachama, and Telugurayanicheruvu plantations, and Sandal in the last two; the latter does well, but the teak plantations, which form the bulk, are a failure. *Red Sanders* were raised in the nurseries, these may do better than teak; but the Chentsus should be used on protection and improvement work in *East Kurnool* rather than on plantations, as perennial water is insufficient. In *Kurnool South*, $3\frac{3}{4}$ acres were planted at Bhargavam, but the casualities were great owing to the exceptional hot weather. In *Kurnool West*, the 8 plantations were maintained, and are excellent. In Nagaluti, 38 acres were planted with mixed species, and more than 95 per cent. survived, and a brick channel of 1,493 feet was constructed, which facilitated watering very much; in Bairluty, 6 acres were so planted, and the casualities were about 2 per cent.; in Pasurutla, Rudracode, Pangidi and Sudem, 21, 32, 11 and 23 acres were planted with mixed species; Nim came on splendidly at Rudracode and Sudem, some being 8 feet high, teak at Rudracode, the tallest being $7\frac{1}{2}$ feet, and Yegi at Sudem; in the Sandal area at Pecheruvu grass and bushes were removed to allow free growth, and in the 31 acres planted in 1910–1911 an average of 150 seedlings per acre have come up, the tallest being 1′ 6″; the general results were, however, poor owing to scanty rainfall. In Honkaram, 11 acres were planted with mixed species, teak and billudu amongst them being most successful; dibbling was not undertaken for want of rain.

Taungya operations.—In *Godāvari Upper*, the area of 125 acres in Pegha reserve treated under this method from 1903–1908 was burnt during the hot season, and only 10,000 teak and 8,300 yegisi survived.

Cultural operations.—In *Godāvari Upper*, no new area was added during the year; of the areas of previous years, those in Marrigudem fared better than the rest, the plants surviving being 59 per acre, while those in other ranges were only 5. Out of 1,407 trees surviving at the beginning of the year in Dayyalamadugu area, only 130 were living at the end. In *Lower Godāvari*, Mangrove sown in certain felled coupes of Coringa and Kandikuppa reserves of Delta Range germinated well, as they did in Kanur, but not in Sorlagondi, reserves in *Kistna*; teak, Satinwood and palmyra, sown in reserves of Rajahmundry Range of *Lower Godāvari*, were not successful; whilst, in *Kistna*, the same applies to teak and other species in Bezwada Range; but sandal in Kondapalli reserve is doing well; as are the fruit trees of Bezwada and at Dongamarlabhavi, and transplants of 1909–1910 in reserves of Ellore Range, though here again sowings of the year under report proved unsuccessful. In *Kurnool East*, teak seeds were sown in bamboo tubes and baskets and planted over 20 acres, but the seedlings survived only over 9 acres; in *Kurnool West*, mound and trench sowings were made in all the regeneration series in Kurnool and Pattikonda working circles, and Veldurti reserve, but the results were not good

owing to want of rain; at Indreswaram 10 acres were treated under this system, to give work to Chenchus, with the same result, in Sivapuram beat dibbling of mixed species was made, and 90 per cent. germinated, nim coming up best.

Bunding of streams and gullies.—In *Ganjām*, bunding work was given up, as being too costly and the result insufficiently good. In *Godāvari Upper*, near the bunds constructed three years back as much as 3 feet silt has accumulated.

(*c*) *Operations for the Improvement of Growing Stock.*

24. Improvement felling, thinning, coppicing, clear felling, cleaning and weeding and removing deadwood for the improvement of growing stock are detailed under exploitations.

Creeper cutting.—In *Ganjām*, this was done by the subordinates, Khonds and fire patrols; in *Godāvari Lower*, by subordinates; in *Kistna*, systematically in coupes prior to felling.

Fencing.—This was unsatisfactorily undertaken in Owk range in *Kurnool South*.

(*d*) *Experiments.*

(i) *On species.*

25. *Sandal.*—There are upwards of 1,400 in the Conservator's compound (65 acres) at *Waltair*, 40 per cent. are from 5 to 11 feet in height, 30 per cent. 1 to 5 feet, and 30 per cent. under 1 foot; there was great mortality amongst the seedlings immediately after germination this year owing to drought (a shortage of 20 inches of rain), and amongst the larger trees owing to the death of the hosts; in the compound of the District Forest office, *Ganjam* about 100 seedlings were raised out, of which 25 were transplanted there with hosts and 50 were sent to Russullkonda for similar treatment; in *Godavari Upper*, 200 seeds were put in in the compounds of 3 bungalows and they are doing well; seeds sown in Bezwada reserve in *Kistna* failed, but the seedlings transplanted in Kondapalli reserve are flourishing. The oil analysis of low-level sandal, communicated from the Central circle, shows that it is just as valuable as high-level sandal.

Mahogany.—The tallest of 34 trees previously planted in the Conservator's compound at *Waltair* is 21 feet high, and most are doing well: 137 seedlings were put out during the year; those planted in 1908–1909 in *Ganjam* look healthy but their growth is extremely slow; out of 5 living at the beginning of the year in Rekapalli range of *Godavari Upper* 2 died; in *Kurnool West*, there are about 5,000 healthy seedlings in the nursery at Nagaluti, but of those planted in Velgode range 40 per cent. died for want of rain.

Red sanders.—There are 332 in the Conservator's compound at *Waltair*, the tallest being 15 feet, but most between 5 and 10 feet; those in Napier's park in *Ganjam* are flourishing, as are 2 in Rekapalli range of *Upper Godavari*; in *Kurnool West*, seedlings were raised and planted in Velgode range, those in Sudem plantation are doing well.

Padauk.—Two and half pounds of seed were sown in the Conservator's compound at *Waltair* but did not germinate.

Yegi.—Sown in 1908 in *Ganjam* is growing slowly.

Logwood.—There are 545 trees in the Conservator's compound at *Waltair*, of which 20 per cent. are doing well, but they remain stunted for a long period and then shoot up; those in the Kandikuppa reserve of *Godavari Lower* are thriving well.

Divi Divi.—The three in Edugurallapalli, 2 in Singaram, one in Tunikicheruvu, bungalow compounds of *Godavari Upper* are thriving.

Rubber—(1) *Ceara.*—There are 27 trees in the Conservator's compound at *Waltair*, the highest 17½ feet, but mostly below 10 feet; in *Ganjam*, they are coming up vigorously where the canopy is dense in Napier's Park.

(2) *Para.*—Out of 106 remaining at the end of last year in *Vizagapatam* 44 died, and the rest are doing well.

(3) *Assam.*—There are 230 trees in the Conservator's compound at *Waltair*, the tallest being 14 feet, but they are mostly stunted.

Catalpa.—In *Ganjām* out of 13 planted in 1909, 5 are healthy; those in the Conservator's compound at *Waltair* all died.

Cocoanut.—Planted in Gopuvanipalem reserve of *Kistna* is doing fairly well.

(ii) *Other points.*

(*a*) *Saline soils.*—In *Lower Godāvari* log-wood, Kanuga, Vepa, Neredu, Kunkudu, Jeeluga and Gangaravi were planted to test their capability of growth in such localities. In *Kistna*, 5 areas in salt swamps were sown with Babul, but were not successful.

(*b*) *Olibanum.*—Under a reference from the Imperial Forest Economist two plots in Kondapalli and Kondur reserves in *Kistna* were demarcated and incisions made on 76 Kondamamidi trees to test whether any Olibanum could be obtained, but without success.

(*c*) *Sandal hosts.*—A series of experiments has been made in the Conservator's compound at *Waltair* during the last three years, testing the hosts of Sandal, by isolating six of each species in large flower pot. The general result is that Sandal thrives best on (1) all Leguminosæ, except tamarind and Beltophorum, especially Babul Sissoo, and Kanuga; (2) the species of the orange family; it apparently does not thrive well on species containing (1) milky juice—Euphorbiaceæ, Urticaceæ Apocynaceæ, Sapotaceæ, etc., except the peepul; (2) acrid juice—Anacardiaceæ, including the leguminoses tamarind; and (3) bitter juice—Loganiaceæ, Meliaceæ and Simarubaceæ, in this case the leaves usually becoming boat shaped and whitish as if covered with incandescent hair.

5. Exploitation.

(*a*) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

26. One coupe in the casuarina plantations of *Ganjām* and *Godāvari Lower*, and 6,715 acres in *Kistna*, and also areas of mixed forests to be planted in *Kurnool West* were treated under this method.

(2) *Selection Fellings.*

27. Dead sal logs in Kurcholi, Gullery and Dhimirijoli reserves in *Ganjām*, dead and suppressed casuarina trees in the plantations of *Godāvari Lower*, soft wood from coupes in two reserves of *Kistna*, dead timber and fuel, from the reserves in four ranges in *Kurnool East*, and from old coupes and fire lines in *Kurnool South*, and dead timber from hill forests and deformed trees of better species in improvement felling coupes in *Kurnool West* were removed under this system.

(3) *Regular Thinnings.*

28. Fuel in Coringa and Bendamurlanka plantations in *Godavari Lower*, and bamboos in *Ganjām*, and *Godvari Lower*, *Kistna*, and *Kurnool East* and *South*, were removed by thinning.

(4) *Improvement Fellings.*

29. Badly grown teak and dead billudu from three reserves in *Kistna*, and of these and other better classes of timber on 958 acres in *Kurnool West*, were cut back under this system, and in the latter district another 920 acres were cut back as fuel.

(5) *Coppice with Standards.*

30. Six sal coupes and 2 fuel coupes in *Ganjām*, 19 fuel coupes in *Godāvari Lower*, 10 coupes in *Kistna* and 1,184 acres on the Nallamalais, and 1,135 acres on the Yerramalais in *Kurnool West* were worked under this system.

(6) *Unregulated Fellings.*

31. These were confined to bamboos in *Godāvari Upper*, the unreserves and Rampa in *Godāvari Lower*, and to palmyra trees in *Kurnool West*; in *Godāvari Lower*, such fellings have been stopped from unreserves of Peddapur Range.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

32. In all districts seigniorage was collected on gravel, earth and other minerals. The usufruct of mango, tamarind and other fruit trees was sold in auction; the collection of Tangedu and other barks, honey, wax, myrabolams, hides, horns, etc., were leased out. The chief deviations are noted below:—In *Ganjām*, the majority of

topes and trees were left to the enjoyment of Khonds; in *Vizagapatam*, and *Lower Godāvari*, seigniorage was collected from purchasers of produce from hillmen at weekly markets; in *Kurnool*, the collection, other than Tangedu and Amaroy, was made departmentally through Chentsus.

(2) *Extraction of Fodder.*

33. In *Godāvari Lower*, pasture lands in Cocanada and Ramachendrapur taluks, and the right of removing grass from Coringa reserve, were leased out; in *Kistna*, the collection of fodder grass from closed areas was leased out. In *Kurnool South*, the free removal of grass by head loads was permitted, and departmental collection of grass for the use of the Government bulls was made.

(3) *Hay-making.*

34. In *Kurnool South* alone, hay was collected departmentally, and used for Government bulls.

(4) *Grazing.*

35. The parcellaire system was in force in *Kistna*; and in other districts grazing with permits continued. The revenue derived was Rs. 1,10,364 against Rs. 1,20,267 in the previous year. The decrease is due to less number of Delta cattle taken to Rampa in *Godāvari Lower*, the previous year's mortality of cattle having scared away graziers, and to a smaller number of alien cattle resorting to *Kurnool* Forests, owing to late rains and want of water.

(*b*) AGENCY OF EXPLOITATION.

(i) *Departmental Agency.*

36. Forms 76 and 77 show separately the different classes of produce collected, and Form 78 the stock disposed of and the balance remaining. The exploitation by Departmental Agency was necessary for reasons already given. The total quantity of timber and fuel, the number of bamboos, and the value of minor produce extracted departmentally were 69·23, 30·35, and 5·29 per cent. of their respective total outturn through all agencies; and the total value of the disposals was Rs. 3,53,682 against Rs. 3,05,394 in the previous year. These exclude the transactions in *Guntūr* and *Anantapur* of Central Circle, where fuel and bamboos of *Kurnool South* produced the following results :—

		Receipts.	Disposals.	Revenue.	Expenditure.
		c.ft.	c.ft.	Rs.	Rs.
Guntur ..	Fuel	26,100	26,400	2,331	2,141
			No.		
	Bamboos	..	8,633	212	..
Anantapur.	Bamboos	..	2,850	166	..

Transport was conducted in the same way as in the previous year *viz.*, by boat, rail, country-carts and buffaloes.

Timber.—The quantity of timber extracted was 370,195 c.ft. against 204,702 in the previous year; the increase is due to larger demand for sal poles and dead sal timber in *Ganjām*, to stocking of depots, to collection from guide and interior lines newly cut, and to larger departmental works.

Fuel.—The quantity of fuel extracted was 4,007,005 c.ft. against 3,841,023 in the previous year; the increase is due to increased coupe sales, which are becoming popular.

Bamboos.—The number of bamboos extracted was 6,135,885 against 6,737,104. The fall is noticeable chiefly in *Vizagapatam* and *Kistna*.

Minor produce.—The produce collected was 271,806 maunds against 166,859 in the previous year. The increase is due to better harvest.

(ii) *By Purchasers.*

37. The prepayment system was in force in *Godāvari Upper* for removal of produce for local consumption (Koyas and Reddis) from reserves, and from *Godāvari Lower* from unreserves and Rampa drift wood was sold in auction in both the districts. With the above special exception, *Vizagapatam* is the only district where the unregulated permit system still obtains, and purchasers were allowed to remove bamboos in reserved forests where it is alleged that the working of coupes is found impracticable or the coupes are far away from localities of consumption.

(iii) *Rights and Privileges.*

38. The following statement shows the estimated quantity and value of produce removed under this head ;—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total value.
Cubic feet.	Value.	Cubit feet.	Value.	Number.	Value.	Value.	Value.	
	Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
807	826	154,806	3,099	12,293	354	23,070	1,067	28,416

The value of the produce removed in the previous year was Rs. 27,489.

(iv) *Free Grantees.*

39. The following statement shows the quantity and value of produce removed by free grantees :—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total value.
Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
	Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
40,397	3,452	560	2	140,825	1,620	96	6	5,176

The value of the produce removed in the previous year was Rs. 8,466.

(*c*) Outturn and Sources of Forest Produce.

Agency.	Timber in cubic feet including sandal wood.		Fuel in cubic feet.		Bamboos in number.		Minor produce (including grass and grazing) ; gross value in rupees.	
	1910-11.	1911-12.	1910-11	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.
1	2	3	4	5	6	7	8	9
By Government	204,702	370,195	3,841,023	4,007,005	6,737,104	6,135,885	2,963	14,922
By purchasers (including confiscation).	476,446	637,198	848,456	1,112,102	8,478,083	13,927,560	320,521	265,593
By right holders	787	807	154,506	154,806	12,293	12,293	24,150	24,137
By free grantees	69,651	40,397	..	560	121,600	140,825	253	102
Total ..	751,586	1,048,597	4,843,985	5,274,473	15,349,080	20,216,563	347,887	304,754

40. The variations have been explained where necessary. The rates for grazing fees levied in the several districts are shown in Form 74. The number of animals licensed to grazing on permits was 520,602 against 563,798 in the previous year.

CHAPTER III.—FINANCIAL RESULTS.

41. The financial results of the Circle compared with those of last year and the average of the five preceding years show a net increase and decrease of 10,940 and 1,18,924 respectively.

—	1911-12.	1910-11.	Average of preceding five years.
	Rs.	Rs.	Rs.
Revenue..	8,30,433	7,15,252	7,30,846
Expenditure.			
A "Conservancy and Works" inclusive of "Refunds."	5,87,457	5,28,979	4,69,408
B.—Establishment.	3,87,093	3,41,330	2,86,642
Total Expenditure ..	9,74,550	8,70,309	7,56,050
Net results ..	* — 1,44,117	— 1,55,057	— 25,204

* Excludes Rs. 568 being the net revenue over expenditure in *Guntur* and *Anantapur*, from sales of fuel and bamboos of *Kurnool South*.

The gross receipts were higher than those of the previous year and the average by 1,51,181 and Rs. 99,587 respectively. The (A) Expenditure shows a corresponding increase. The net results show a deficit of Rs. 1,44,117. This is due to large expenditure on works of improvement and to the introduction of the time scale pay for the Provincial service. With reference to the remark in paragraph 2 of Government Order on last year's report about the deficit instead of surplus, it must be stated that, in the previous five years, *capital* was being *diminished* under the old permit system, and practically nothing done towards replacing that capital; now, that permit system has been abolished, no working beyond the *interest on that capital* is undertaken, and innumerable works—roads, buildings, fire protection, plantations, etc. (as well as an increase in establishment which affords far better protection),—are undertaken which tend to *increase* that capital manifold. Attention is invited to the last paragraph—"Development"—of the then Conservator's Administration Report of last year.

The total receipts and expenditure for the year rose by 16·10 and 11·98 per cent. respectively.

About 46 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 54 per cent. to exploitation, etc. It will be observed that the value of timber and other produce at sale depots at the close of the year amounted to Rs. 1,31,541, which was Rs. 51,737 less than it was at the close of the previous year.

The outstanding revenue at the beginning of the year was Rs. 19,405, and the value of the sales amounted to Rs. 8,48,152. Out of the total of Rs. 8,67,557 Rs. 8,30,433 were collected, leaving an outstanding balance of Rs. 37,124 at the close of the year.

Receipts.

(i) *By departmental agency.*

Timber + Rs. 53,993 due to increased departmental operations and to sale of previous years stock in sale depots.

Fuel — Rs. 13,220 due chiefly to the closure of several sale depots.

Bamboos — Rs. 1,286. No remarks.

Minor produce + Rs. 8,801 due to better crops of minor produce.

(ii) *By purchasers.*

Timber + Rs. 19,071 due to better rates offered by contractors in *Godāvari Upper*, to greater demand from Rampa forests in *Godāvari Lower*, and to sale of trees on darkhast lands on a larger scale in *Kistna*.

Fuel + Rs. 441. No remarks.

Bamboos + Rs. 25,318 chiefly in *Godāvari Lower*, due to greater demand from Rampa forests.

Grazing and fodder grass — Rs. 9,903 chiefly in 3 *Kurnools* due to smaller number of foreign cattle having been taken to forests for want of water owing to late and scanty rains, and in *Godāvari Lower* to large mortality in the Delta cattle taken to Rampa for grazing in previous years. It is understood that in the Delta tracts of *Godāvari* and *Kistna*, buffaloes, which can stand the swamps better, are to a great extent replacing other cattle.

Other produce + Rs. 32,685. The increase occurred chiefly in *Godāvari Lower* and *Vizagapatam*, due to good tamarind crop, in *Kurnool East* and *West*, to better sales of tangedu bark, and in *Kistna*, to better sales of minor produce generally.

(iii) *Miscellaneous (including confiscated drift and waifwood).*

Revenue—Rs. 719. No remarks.

Expenditure.

A.—Conservancy and Works.

The total expenditure exceeded that of the previous year by Rs. 58,478 and was due mainly to the following causes:—

(1) to increased cultural operations in the three *Kurnools* and *Kistna*;

(2) to increased fire protection operations in *Kurnool South*;

(3) heavy programme under roads and buildings in the three *Kurnools*, *Ganjām* and *Lower Godāvari*; and

(4) to the demarcation of the Dupati boundary line in *Godāvari Upper*.

B.—Establishment.

The increased cost of Rs. 45,763 was due mainly to the introduction of the time scale pay for the Provincial Service, to the entertainment of the full sanctioned establishment, and to the grant of Coronation bonus.

CHAPTER IV.—ADMINISTRATION.

42. *New District Forest office charges.*—Orders on the question of dividing the Gōdāvari district into three have been passed; but the new division has not yet been formed. The *Ganjām* District Forest office was raised from third to the second class.

The *Bellary* and *Anantapur* districts were transferred to the Central Circle.

43. *New Ranges.*—Three new ranges, Lakkavaram, Pulusumamidi and Cherla were constituted in *Godāvari Upper*.

44. *Conduct of executive establishment.*—The conduct of the executive establishments is reported to be not altogether satisfactory in *Godāvari Upper* and *Lower*, and in *Kurnool South* and *West*; allowances must be made in the two first divisions.

Good conduct.—The work of Rangers S. Ramaswamy Aiyar and V. S. Subramania Aiyar is specially commended.

Bad conduct.—Two Rangers were convicted of criminal breach of trust, two were temporarily reduced, and two were suspended. Six Deputy Rangers were removed and one was suspended.

Protective staff.—The conduct of this branch still continues unsatisfactory on the whole.

Prosecutions.—One Deputy Ranger and two Forest guards were convicted in the Lower Courts, but let off on appeal, one Forester was convicted, one Forest guard and two watchers were prosecuted and punished. One Deputy Ranger and one Depot gumastah are evading warrants of arrest.

Removals and minor punishments.—Twenty-eight Forest guards were removed, 38 suspended, and 7 reduced; whilst among other minor subordinates there were 41 removals, 40 suspensions and 2 reductions.

Foresters.—On the whole they are said to have worked well; removals 10, suspensions 5 and reductions 5.

Ministerial establishment.—The conduct of the ministerial establishment was on the whole satisfactory. Three Range clerks and three Range peons were dismissed, and one Range peon suspended.

45. *Health of establishment and casualties.*—The health of the establishment was, as usual, bad in *Ganjām*, *Godāvari Upper* and *Lower*, and the *Kurnool* Nallamalais; and good in the remaining areas. One Deputy Ranger, three Forest guards, one Tannahdar, one bungalow watcher, and one plantation gardener died of malaria; one Forest guard died of cholera. Several subordinates had to take leave on account of ill-health.

46. *Relations between Revenue and Forest officials.*—The relations between the Revenue and Forest officials were cordial in every district.

47. *Service books.*—These are maintained and verified in all the districts.

48. *Tours of the Forest Member.*—The Hon'ble Mr. W. O. Horne, C.S.I., visited the *Ganjām* district.

Conservator's inspections.—Mr. P. M. Lushington was in charge of the Circle up to the 1st October and Mr. A. W. Lushington subsequently; 224 days were spent in camp by these two officers. They visited all the districts, and inspected all the District Forest offices.

Touring of the District Forest officers.—All the District Forest officers spent more than six months in camp.

Inspection of Range offices.—All Range offices were inspected except one in *Kurnool West*.

Audit of accounts of District Forest offices.—All the District Forest offices were inspected by Auditors from the Accountant-General's office. The results were reported to be satisfactory except in *Ganjām.* In *Kurnool West* timber and permit accounts were found to be unsatisfactory, but here there are exceptionally large transactions.

49. *Imperial Forest College, Dehra Dun.*—One Government student returned during the year with the Higher standard certificate; and Ranger Belliappa (transferred from the Central Circle) with Honors. Ranger Mr. George Venugopal deputed for the third year's course, completed his training by 30th June 1912.

Eight Government students were deputed to the Forest College at Coimbatore.

Vernacular Training School for Guards.—The school was opened at Giddalore on 1st February 1912 with Rangers N. S. Anantacharlu and S. Ramaswamy Aiyangar as Instructors. Out of 10 Foresters and 20 Forest guards deputed, 7 Foresters and 19 Guards completed the course. One Forester and one Guard obtained first, six Foresters and twelve Guards second, and six Guards third-class certificates.

50. *Work and service of superior officers.*—The following Collectors have commented on the work of their District Forest Officers :—

Ganjām.—"I wish to bring to the Board's notice Mr. Bennett's good work. It is chiefly due to his energy and tact that the forest operations in Pondakhol have been so successful." I quite agree, and he has also developed the contract system well.

Kurnool—"Mr. Aswatham Naidu's work was on the whole satisfactory."

Conservator's remarks.—Mr. Wood's work in *Kurnool West* continued excellent; and Mr. Barlow-Poole worked very hard during the fire season, at which period also he was far from well; all the other officers of the Imperial and Provincial service have done their best; Mr Rego and Mr. Dawson have insufficient control over their subordinates; Mr. Dawson was unable to develope the contract system in *Godāvari*, but Mr. Seager has since been able to do so.

51. *List of vernacular names of trees and shrubs.*—The revision of this list is still in progress, but will be completed very shortly.

CHAPTER V.—GENERAL.

(*a*) Rules under the Forest Act.

52. (i) *Timber transit rules.*—The rules worked well in *Ganjām, Vizagapatam, Kistna* and *Kurnool East.* In *Godāvari Upper*, the rules are said to have caused hardship on timber merchants on account of corrupt subordinates; but it was the duty of the District Forest Officer to see that this did not occur. In *Godāvari Lower*, proposals were submitted to the Board for reducing the number of checking stations on the Gōdāvari. In *Kurnool South* and *West*, printed permits have been ordered for the transit of private produce on account of illicit removals in certain parts.

(ii) *Rules under section* 26 *of the Forest Act.*—The privileges allowed by these rules were generally availed of by the people; and there were no complaints nor abuses except in *Vizagapatam* and *Godāvari Upper.* In *Vizagapatam*, 13 cartloads of timber were conveyed from the Palakonda Agency tracts contrary to the rules without any permit; in Gōdāvari Upper, the concession granted to the hillmen to clear land for podu cultivation was abused and steps have been taken to prevent this.

(iii) *Rules framed for the collection and disposal of the drift wood.*—These rules continued to work smoothly, but a revision of the functions of the establishment connected therewith is under consideration.

(iv) *Rules for the guidance of the Forest officers in compounding Forest offences.*—The rules are reported to be working satisfactorily. In *Kurnool West*, they have not been sufficiently tried. A special report on the working of these rules was already submitted to the Board in this office R.C. No. 1140 D, dated 30th July 1912, with reference to paragraph 4 of their Proceedings Forest No. 47, dated 5th March 1912.

(v) *Rules framed under the Forest Act for private estates.*—The Jeypore and Vizianagram Forest rules worked well, and no complaints had been received from the villagers residing near the reserved areas. In Jeypore there was not much attempt at conservancy of remote jungles.

The provisions of section 29 of the Madras Forest Act were recently applied to about 87 square miles of forests in the Madgole estate with a view to protect the water-supply of Sarada river. An application was made by the zamindar of Salur during the year asking that the provisions of sections 26 and 35 be made applicable to the forests and waste lands in his estate.

(*b*) SUPPLY OF FOREST PRODUCE TO MEET THE WANTS OF THE PEOPLE.

53. (i) *Development of the coupe and depot system.*—The permit is only used for grazing and minor produce in all the districts, and the exception quoted under paragraph 37, "(ii) Purchasers." A great advance has been made in the conversion of the departmental method of working coupes into the contract system. In *Ganjām* the sales were from coupes and sub-depots. In *Vizagapatam* the permit system was in force in the unreserved areas, and as regards the reserved forests in respect of bamboos only where it is alleged that the coupes could not be otherwise worked. In *Godāvari Upper*, the inhabitants of Bhadrāchallam are allowed the privilege of free removal of timber from unreserves. The wants of others were met by the issue of permits for produce required for local consumption, from reserves on payment, and free from unreserves. In *Godāvari Lower*, three sale depots were opened in the Delta range for want of purchasers from coupes. In the Rajahmundry range the fuel cut and stacked departmentally was sold from coupes. There were no offers for retail purchases at the coupe edges in any range; this has since been rectified. In the Rajahmundry, Polavaram and Peddapur ranges the bamboo coupes were leased out to contractors. Permits were issued for removals of forest produce from Rampa. In *Kistna* almost all the sale depots were abolished and the coupes were sold standing to contractors. In *Kurnool East*, bamboo and some fuel coupes were given on contract; it is hoped that a further development will now be made. All the sale depots except two were abolished, and the produce was sold at the forest (coupe) depots. In *Kurnool South*, spokes and felloes, small timber, fuel and bamboos were sold in depots; more might be done here to imitate the next district; in *Kurnool West* the fuel was sold in coupes except at Kurnool. The contractor referred to in the last year's report has undertaken to purchase 6,000 stacks of fuel a year in the Musalimadugu coupe, and also small fuel in the Bairluti coupe, for supply to Kurnool. Sales of agricultural implements in coupes were introduced, and regular monthly auctions in the forests instituted. Bamboos were sold in coupes. The best development of the contract system, at present, is in *Kurnool West* and *Ganjām*; the adjoining divisions should copy these.

54. *Free removal of grass.*—Free removal of grass was permitted in *Vizagapatam*, *Kistna* and the three *Kurnools*. The concession was freely taken advantage of by the ryots, and was not abused in all these districts, except *Kistna*, where no grass was removed.

55. *Measures adopted to encourage the growth of manure-leaf yielding plants.*—This subject is not dealt with here in view of the decision arrived at in G.O. No. 1065, Revenue, dated 29th May 1911.

56. *Hill tribes.*—In *Ganjām*, the assistance of practically all Khond villages adjacent to or inside reserves in Goomsur was enlisted in fire protection and the general protection of the forests. Two hundred and seventeen Khond villages received concessions, for assistance rendered, in the shape of ploughs, materials for repairing their houses, minor produce and dry fuel. The concessions granted to 14 Khond villages were cancelled for failing to protect the forests near their villages from fire and theft. The Goomsur Khonds have been instrumental in detecting a good number of forest cases. Pondakhol Khonds worked well in demarcation, road and building works, and in fire-protecting the forests entrusted to them. Those villages in Pondakhol that showed special zeal in extinguishing fires were recompensed for their labour in kind. In *Vizagapatam*, care was taken to avoid giving the hillmen cause for complaint against the working of forest laws, so long as they did not abuse the privileges given to them. In *Upper Gódāvari*, the Koyas and Reddis worked at fire-tracing, line-clearing, and felling small timber and bamboos. In *Lower Gódāvari*, the hillmen were allowed to enjoy the usual concessions regarding podu cultivation, free grazing, and free removals of certain species of timber for domestic and agricultnral purposes from Rampa and unreserves. Although they were expected to assist in putting out fires there were no cases in which they showed real interest in the work even when large areas of reserves were burnt; this requires more tactful interest on the part

of the Divisional officers. In the three *Kurnools* the Chentsus are developing quite satisfactorily; and were employed chiefly on plantation works, collection of minor produce, and in preventing forest fires. The scheme of departmental collection of ippa flowers was much appreciated. They also enjoyed the right to cut and remove small poles, bamboos, and grass. They made decided efforts in *West Kurnool* to preserve the portions of forests for which they were held responsible from fires; and further arrangements are being made for this in *East Kurnool* for the future; there are but few Chentsus in *South Kurnool*.

57. *Cultivation in reserved forests.*—No cultivation was allowed in reserved forests in *Godāvari Upper and Lower*, *Kistna* and *Kurnool South*. In *Ganjām* cultivation was allowed in two villages in Pondakhol, where the reserve boundaries were found to restrict cultivation, and where working boundaries were established. In *Vizagapatam*, an area of 55 acres in Chintapalli reserve was leased out to one Korapu Chitukulu at Rs. 3 per acre per annum, the lease being renewable at the option of the Collector every year. In *Kurnool East*, 105 acres of land in the Markapur reserve of Rachakonda was assigned to the Chentsus of Garapenta and Chennapalempenta for dry cultivation, on an annual assessment of As. 2 per acre; the above grant is subject to the condition that they render all possible assistance in stopping fires in the neighbouring forests. In *Kurnool West*, some Christians of Gadidamadugu were allowed to raise a vegetable crop on 28 acres of canal lands falling within the Gadidamadugu reserve; the rate of assessment is As. 8 per acre.

58. *Mining and prospecting.*—In *Kurnool South*, two syndicates are at work in the Owk reserve; the works have not as yet shown much sign of development. In *Kurnool West*, Mr. A. Ghose continued prospecting for steatite, galena, and diamonds in the Yerramalais. The grant of a mining lease for steatite has been sanctioned, and the lease is before Government. Messrs. Beardsell & Co. are prospecting for barytes near Betamcherla.

59. *Realization of revenue from the usufruct of toddy-yielding trees on Government waste and poramboke lands.*—The chief revenue is realised in *Lower Gódāvari* (Rupees 7,070), *Kistna* (Rs. 9,746), *Kurnool East* (Rs 1,205), *Kurnool South* (Rs 3,199), and *Kurnool West* (Rs. 17,661).

(*c*) Live and Dead Stock.

60. *Live-stock*, (*a*) *Elephants.*—In *Ganjām* the three elephants were in good condition; the sick elephant was made over to the Zamindar of Bodogodo. The elephant in *Vizagapatam* enjoyed good health; the tumour on the fore-arm has not been cured, but it does not appear to cause the animal much distress. In *Godāvari Upper*, the elephant was in good health; the second elephant sanctioned for this division has not yet been purchased. In addition to the elephant in *Kurnool West*, another *very* small one was transferred from South Malabar; both the elephants were in good condition.

(*b*) *Buffaloes and bullocks.*—In *Ganjām*, out of six buffaloes one was killed by a tiger, two were sold, and one died of old age. In *Kurnool South*, out of 16 bullocks, one died, and three were shot by the District Forest Officer on account of old age.

Inventory of valuable stock.—The stock registers were maintained and verified in all the districts.

Rain gauges.—Rain-gauges were set up in all the districts and the readings were properly recorded (*vide* appendix D). The year was an exceptionally bad one climatically; very short rainfall, and intense and prolonged hot weather.

(*d*) Suits.

61. *Suits.*—In *Godāvari Lower*, appeal to the Privy Council in the Coringa extension suit has not been preferred, copy of the records not being ready. In *Kurnool West*, a pauper suit for certain amounts, alleged to be due, has been filed by Azam Sahib, a contractor for a masonry dam and channel at Sudem under the supervision of Mr. Eber Hardie.

Office of the Conservator of Forests,
Northern Circle,
Camp, Bezwada, 5th September 1912.

A. W. LUSHINGTON,
Conservator of Forests,
Northern Circle.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

CENTRAL CIRCLE, 1911-1912.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1 & 2
	2. Forest settlement	3
	3. Demarcation	4
	4. Forest surveys	5 & 6
II	Management of State forests—	
	1. Regulation of management—	
	(a) Preparation and control of working-plans	7 & 8
	(b) Annual plan of operations	9
	2. Communications and buildings—	
	(a) Roads and bridges	10
	(b) Buildings	
	(c) Miscellaneous...	
	3. Protection of forests—	
	(a) General protection	11 to 13
	(b) Protection from fire	14
	(c) Protection from cattle	15
	(d) Protection against injuries from natural causes	16
	4. Sylviculture—	
	(a) Natural reproduction	17
	(b) Artificial reproduction	18
	(c) Operations for the improvement of the growing stock ...	19
	(d) Experiments on species	20
	5. Exploitation—	
	(a) System of management— (i) Major forest produce ...	21 to 24
	(ii) Minor forest produce	25 to 28
	(b) Agency of exploitation	29
	(i) Departmental agency	30
	(ii) By purchasers...	31
	(iii) Rights and privileges	32
	(iv) Free grants	33
	(c) Outturn and sources of forest produce	34
III	Financial results	35
	Administration	36 to 53
IV	General	54 to 67
V	Appendices A to E and Annual Forms Nos. 65 to 85	

FOREST ADMINISTRATION REPORT

OF THE CENTRAL CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1912.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

The present report deals with the Divisions of Bellary, Anantapur, Guntūr, North and East Cuddapah, Chittoor, Nellore and Chingleput.

2. The total area under the control of this Circle at the beginning of the year was 7,798 square miles. During the year 3,376 square miles were transferred to the Southern Circle with the Divisions of North and South Salem, North and South Arcot and Trichinopoly *cum* Tanjore, whilst 1,520 square miles (Bellary and Anantapur) were received from the Northern Circle including 63 miles of leased forest in *Bellary* making a total forest area of 5,942 square miles.

During the year the reservation of 66 square miles of reserved lands was abandoned reducing the area to 5,876 square miles.

With the exception of this, the changes in area are of little importance and are shown in Form 65—the total area being shown as 5,875 square miles, the difference being due to fractions of a square mile.

2. Forest Settlement.

3. Thirteen blocks of 15 square miles remained to be constituted reserved forests at the commencement of the year. During the year the settlement of six blocks (3 square miles) was completed, leaving incomplete six blocks (11 square miles) in *Anantapur* and one block (1 square mile) in *Bellary*. Settlement is complete in three blocks of 10 square miles in *Anantapur* and the section 16 notification is awaited.

3. Demarcation.

4. During the year 5 miles of external demarcation were carried out in *Anantapur* and *Chittoor*. One mile in *Anantapur* and 2 in *Guntūr* have still to be demarcated.

The existing boundary lines were maintained in all Divisions.

4. Forest Surveys.

(*a*) *By Survey of India.*

5. No work was undertaken by the Survey of India Party during the year except mapping.

(*b*) *By Departmental Surveys.*

6. The work of the departmental establishment consisted chiefly in the verification of boundaries, alignment of roads, survey of the coupes to be leased out and the preparation of maps and estimates.

In *Bellary* 15 square miles of coupes were surveyed and a stock map prepared of the Adōni areas under special cultural operations.

In *Anantapur* the rectification of demarcation was carried out over a length of 110 miles.

In *Guntūr* 29 square miles were surveyed with a view to the preparation of Working Plans.

In *North Cuddapah* 23 fuel coupes were surveyed.

In *East Cuddapah* 46 miles of coupe line were surveyed.

Topographical survey is practically complete in *Chittoor*, *East Cuddapah* and *Chingleput*. It is estimated that more accurate details are required for 445 square miles in *Bellary*, 148 in *North Cuddapah*, 260 in *Nellore*, 725 in *Anantapur* and 388 in *Guntūr*, or a total of 1,966 square miles for the Circle.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) *Preparation and Control of Working Plans.*

7. *Preparation.*—Only one new working-plan was sanctioned for the Srīharikōta Casuarina plantations in *Nellore*. There has been also progress in this District with the preparation of working-plans for the Nellore and Rapur ranges, Tammenapatam extensions and Kothapalli reserves, which were prepared but had to be returned for revision being full of obvious mistakes.

In *Guntūr* real progress was made by the carrying out of a detailed stock survey over 29 square miles.

Apart from this little or no progress has been made. The revision of the Adōni and Alur working-plans was hung up pending the results of the enquiry of the Forest Committee. Important working-plans for the Sāndūr leased forests in *Bellary* and the forests of Madanapalle and Vayalpad of *Chittoor* have been delayed for years because the District Forest Officer has no time to attend to them in addition to his own work. Similarly in *North Cuddapah* no progress has been made with the working-plan for 272 square miles said to be "under preparation" last year.

This want of progress in organising work is one of the chief defects in administration and can only be remedied by the appointment of a working-plans staff.

8. *Control.*—Another defect in management is the want of control over working-plans which has been especially conspicuous in *Nellore*, *Chingleput*, *Guntūr*, *East* and *North Cuddapah*.

It has been customary to slur over this serious defect. In *Nellore* and *Chingleput* coupes are worked without reference to the order of allotment prescribed. In *Guntūr* work was being undertaken practically without reference to the working-plan which covered 21,000 acres. The working-plan itself was very imperfect and its abandonment has been sanctioned.

In *East Cuddapah*, over a large area in the Seshachellams, cutting was restricted to the valuable Red Sanders, and the felling of other species provided in the working-plan neglected.

In *North Cuddapah*, the fire-protection scheme for three working circles provided in the working plan was neglected for several years. The Control registers and Journal were found defective in many Divisions.

Now that this want of control has been pointed out, matters will doubtles improve.

The following were the principal deviations of the year:—

In *Bellary* a special grant enabled cultural operations to be carried out on a much larger scale in Adōni and Alur than provided for. On the other hand, those in Bellary range were greatly curtailed owing to the want of success in the operations in previous years. In Harpanahalli, the work provided for was much in arrears.

In *North Cuddapah*, work is for the most part in arrears, but advance working was sanctioned for the Mamillapalle C series. A good number of works of improvement were not carried out.

In *East Cuddapah*, work is in arrears almost universally and this is attributed to want of demand; but this can hardly be the case in the Bolapalle and Kodur working circles near the railway line.

In *Nellore* also, work is generally much in arrears and this is attributed to the large size of the coupes.

In *Chingleput*, work is in arrears and this is attributed to want of demand. This appears incredible in a district situated in close proximity to Madras.

(*b*) *Annual Plan of Operations.*

9. The chief deviations from the sanctioned plans were as follows :—

In *Bellary* only 1,247 out of an estimated quantity of 2,424 tons of fuel were cut in Gundu coupe owing to labour and transport difficulties. Hay was leased to a contractor instead of being worked departmentally.

The construction of the Alur range cart-track (16 miles) was postponed as the necessary land had not been acquired.

In *Anantapur* the road programme was not carried out for want of a Surveyor.

In *Guntūr* the Range office and Ranger's quarters at Macherla and Bapatla were postponed for want of establishment. There was difficulty in securing suitable sites.

In *North Cuddapah* the road programme was not undertaken for want of establishment.

In *East Cuddapah* one cart-track and two bridle-paths were not carried out and several inspection sheds had to be deferred on account of defective estimates.

In *Nellore* the road from Somasile to Dornal was not undertaken because estimates were not ready and several buildings were not undertaken.

In *Chittoor* repairs to certain roads were not undertaken.

2. COMMUNICATIONS AND BUILDINGS.

10. The following figures compare the outlay on communications and buildings :—

	1910-11.	1911-12.
	RS.	RS.
Roads and bridges	5,438	4,473
Buildings	28,887	53,534
Other works	5,093	7,845

The falling off under roads is regrettable and, as already pointed out was due to not carrying out the sanctioned plan of operations. On the other hand, buildings were pushed forward, the principal development being in *Bellary*, *Anantapur* and *North Cuddapah*.

(*a*) *Roads and Bridges.*

The chief works of the year were—

In *Bellary* the construction of a bridle-path to the Copper Mountains bungalow.

In *Chittoor* the extension of a cart-track from Mamandur to Brahmadevagundam, the construction of a road from Erravaripolayam to Nerabyle and the formation of an inspection path from Tirupati hill reserve to Puliudla rest-house.

Tramways.—Tram lines were laid for the transport of fuel in Srīharikōta forests and the Casuarina plantations of Nellore at a cost of Rs. 616.

(*b*) *Buildings.*

The important works of the year are shown below :—

In *Bellary* the inspection bungalows at Kudligi and Copper Mountains were completed. The inspection bungalows at Anthapuram and Gudikota were commenced. Combined Range offices and quarters were built at Harpanahalli and Hospet (Sandur) and Subordinates' lines and a Deputy Ranger's quarters at Anthapuram.

In *Anantapur* the rest-houses at Muchukota, Kuderu and Paliem were completed. The Ramagiri rest-house remains incomplete, but considerable progress was made. The rest-houses at Nagasamudram and Marutla were well advanced and another at Siddarampuram begun.

In *Guntūr* the rest-houses at Remedicherla and Bollapalle and the Range office at Vinukonda were repaired and improved.

In *North Cuddapah* Range offices were built at Proddatur and Rāyachōti. Rest-houses at Ballappabhavi and Chinnaletipattibhavi were completed, whilst those at Maddimadugu, Ankimadugu and Idupalapaya were begun.

In *East Cuddapah* good progress was made with the construction of the Range office at Sidhout and the rest-house at Obalam.

In *Nellore* Range quarters at Muthukur were completed and a Range office built at Kanigiri. The rest-houses at Kothacheruvu and Maripad were completed and good progress made with Srīharikōta and Gonupalli rest-houses and the Range quarters at Kothacheruvu.

In *Chingleput* the improvements to the Kambakkam bungalow are not yet finished.

(*c*) *Miscellaneous.*

These works were very varied and consisted of repairs to tanks, digging and repairs to wells, fencing and walling. The districts of *Anantapur* and *Bellary* are responsible for the chief works under this head and in the former 13 miles of wall were built in 4 Working Circles round closed areas.

3. Protection of Forests.

(*a*) *General Protection.*

11. The following statement shows the number and classification of forest offences brought to light during the year:—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total.	
	1910–11.	1911–12.	1910–11.	1911–12.	1910–11.	1911–12.	1910–11.	1911–12.	1910–11.	1911–12.
1. Cases taken into court.	10	9	828	1,025	628	683	79	61	1,545	1,778
2. Cases compounded ..	4	20	2,873	4,109	2,335	2,547	323	131	5,535	6,807
3. Cases undetected ..	278	298	106	187	219	320	4	2	607	807
Total ..	292	327	3,807	5,321	3,182	3,550	406	194	7,687	9,392

The number of cases, especially under "unauthorised felling", increased considerably. The increase is general to all districts except *Chingleput* but is most marked in *Bellary*, *Chittoor*, *Nellore* and *Guntūr*. In *Bellary*, it is ascribed to better protection but it is noticeable that the increase in reserved forests was only 129 cases as against 152 in unreserved lands under the control of the Revenue Department. In *Chittoor* the increase is ascribed partly to the unfavourable season and partly to the division of Vayalpad range leading to improved detection. In *Nellore* it is similarly ascribed to the division of the Rapur range. In *Guntūr* the increase is attributed to better protection Out of the 1,958 cases brought to trial 1,649 were convicted, and 301 acquitted, against 1,537 convictions and 331 acquittals during last year. The percentage of failure is 15·37 against 17·71 of last year.

Conservator's remarks.—Out of 301 cases acquitted 136 belong to cases in the unreserves in *Bellary* and *Anantapur*. Were it not for this the percentage of failure would be very much smaller. The Collectors have not explained the large number of acquittals in these cases. Possibly such cases are not so carefully watched now that they do not pass through the hands of the District Forest Officer.

12. *Cases compounded.*—Out of 6,090 cases compounded Rs. 53,029 were collected in 5,976 cases as against Rs. 44,527 in 5,073 cases last year. The average amount charged for each case is practically the same.

The punishments awarded by the magistracy are adequate.

The only case of real importance was an extensive theft of Red Sanders in *East Cuddapah* in which the punishment inflicted was two years rigorous imprisonment. The timber confiscated sold for Rs. 858 and a reward of Rs. 100 was granted to the Ranger who detected it. Rewards were also granted, though still somewhat sparingly, in *Anantapur*, *Guntūr* and *North and East Cuddapah.*

13. The effect of Government Order No. 1990, Revenue, dated 30th June 1910, dealing with the composition of offences was enquired into during the year and a special report submitted on the 1st August 1912.

Generally speaking the rates of composition allowed have been fixed so high that the effect is small, but in *Nellore* the rates usually levied were increased. Closing the forest to grazing on account of systematic offence was generally considered to be unnecessary.

(*b*) *Protection from fire.*

14. The subjoined statement compare the results of fire protection with those of last year.

Year.	Area attempted to be protected.	Area protected.	Percentage of area protected.	Amount spent.	Cost per square mile of area protected.
	sq.m.	sq.m.		Rs.	Rs. A. P
1910–11	2,488	2,334	6·19	21,167	8 5 6
1911–12	2,972	2,630	11·50	22,132	9 1 0

The area placed under special protection was 1,866 square miles of which 191 square miles were burnt. The season was an unfavourable one. In *Bellary* fires were very extensive in the Sandur forests and more than one-fourth of the leased forests were burnt. In *North Cuddapah* a large proportion of the forests of the Proddatur range was burnt whilst in *East Cuddapah* the Nallamalais were burnt from end to end. In *Chittoor*, though the results do not compare favourably with the preceding year, protection was good as, in spite of the unfavourable season, only nine square miles were burnt out of an area of 203 attempted.

The districts of *Nellore* and *Chingleput* do not suffer from fires as the forests are for the most part so heavily grazed. The system of burning large grassy patches (Board's Proceedings, Forest No. 44, dated 9th March 1907) departmentally is condemned both in *North and East Cuddapah* as it seems to have had little effect in protecting the forests behind.

(*c*) *Protection from cattle.*

15. Eight hundred and forty-four square miles were closed to grazing against 691 square miles in the previous year. This is about one-seventh of the forest area. The general impression derived from inspection tours is that the forests of *Chingleput* and *Guntūr* and parts of *Chittoor* have been ruined by over-grazing and those of *Anantapur* and *Bellary* have been seriously damaged by the same cause. The fact that 831,000 sheep are licensed speaks for itself and it cannot be to the benefit of the country to have the forests destroyed by this excessive sheep grazing.

An analysis of the cattle impounded during the year with the average of the three years preceding, is given in appendix E.

The increase in *Bellary* is attributed to better supervision.

(*d*) *Protection against injuries from natural causes.*

16. *Lantana.*—The encroachment of lantana at Horsleykonda and Ramandrug attracted attention. At the former place the evergreen forest was found to be killed out wherever lantana was prevalent and a start has been made to eradicate the weed. In Ramandrug eradication of the whole area invaded will be a big undertaking and must be deferred until fire protection is brought to a more satisfactory state.

Fungus.—In the Casuarina plantations of *Nellore* no traces of fungus (*Trichosporum vesiculosum*) or of borer (*Arbela tetraonis*) were noticed but a small patch of plantation was attacked by the latter in *Guntūr*. In the former district the principle

of allowing two years rest after felling was continued and seems to be effective, but in this way much of the value of the leaf droppings must be lost. In *Guntūr* the system is being tried of planting broad-leaved species in belts between the Casuarina blocks.

Boring beetles.—A serious attack of a boring beetle occurred in Yelama (*Anogeissus latifolia*) and many trees were killed both in *North and East Cuddapah.* The disease seems to be connected with the extraction of gum and the gum contracts have been stopped.

Prickly-pear.—In Anantapur prickly-pear was cleared off an area of 150 acres in two reserves at a cost of Rs. 280.

Creeper cutting.—A good deal of work was done in creeper cutting in several divisions.

4. Sylviculture.

(*a*) *Natural Reproduction.*

17. In *Bellary* seedling reproduction of Yepi (*Hardwickia binata*) is fair in parts. The growth of *Sandal* in Ramandrug is remarkable. In most of the ranges natural reproduction is not good, though in coupes felled over the coppice growth is for the most part capital where fires have been kept out.

In *Anantapur* natural reproduction is reported to be good wherever there is a fair amount of shade. The reproduction of *Hardwickia binata* is particularly good in Muchukota reserve.

In *Guntúr* there is practically no regeneration in the areas open to grazing but coppice is good in closed coupes. Much of the coppice reproduction of Babul (*Acacia arabica*) was spoilt by floods.

The natural reproduction of *Red Sanders* both from seed and coppice is remarkably good both in *North and East Cuddapah.* In the former district the reproduction both from seed and coppice is said to be very satisfactory in the Timber Coupes but not on the lower slopes.

In *East Cuddapah* seedling reproduction of *Shorea Tumbuggaia* and *Talura*, *Anogeissus latifolia*, *Hardwickia binata*, *Acacia sundra*, *Choloroxylon swietenia*, *Terminalia tomentosa*, *Dolichandrone crispa* and *Eugenia alternifolia* is reported to be good. Coppice reproduction is good wherever the felling is properly carried out and the coupes protected.

In *Nellore* reproduction both by seed and coppice is good in the felled coupes. Reproduction was on the whole poor in *Chittoor* on account of the drought and practically does not exist where the forests are open to cattle. In closed areas and more favoured localities it is good.

In *Chingleput* the season is reported to have been unfavourable to reproduction. Reproduction would however be much improved if the protection in this district were better.

(*b*) *Artificial reproduction.*

18. *Regular plantations.*—The figures given in Form 75 for *Nellore* are evidently incorrect as they do not take into consideration the cost of upkeep. The value of plantations in this Circle is very noticeable, for with an area of 10,427 acres on hand at the end of the year we have realised a net profit of Rs. 1,60,000. It is however somewhat doubtful if the area of 10,427 is correct as it contains areas which are certainly not fully planted. This is evidently the case in *East Cuddapah* where 1,496 acres are shown under regular plantation, though a very small part of this has been regularly planted. This is being enquired into. The chief extension during the year was to the *Casuarina* plantations of *Nellore* and *Guntūr.* In both districts though the principal species is *Casuarina* there is now a considerable admixture of broad-leaved species.

In *Bellary* the Moka plantation was extended by 65 acres. The *Sissu* is doing well but even the large and well established *Casuarina* show signs of decay.

Cultural operations.—These operations are practically confined to *Bellary* and *Anantapur* though *North Cuddapah* has shown some progress of late. *Chingleput* shows on paper the large area of 11,888 acres as having been treated but it is hard to find any of these areas on the ground and some of them are exposed to cattle grazing. In this district the operations are said to be carried out in three ways.—

(1) By ploughing.
(2) By dibbling.
(3) By transplanting.

The figures given for the last named method in the Collector's report are as follows :—

	Acres.	Seeds.
Chingleput	765	817
Tiruvallur	572	1,038
Saidapet	149	169

It is very little use to continue planting one or even three seedlings per acre.

In *Bellary* the best results in black cotton soil were obtained by a heavy ploughing and levelling. Mound sowings have as a rule been very successful in plains areas but the pit sowings on hill sides have proved a failure everywhere. Five per cent. of the wounded roots of *Cassia Fistula* and *Melia indica* produced sucker shoots.

In *Anantapur* the cultural operations are pronounced a failure; but there are some marked exceptions which seem to show that the operations should be more concentrated and greater care bestowed on them. In Penukonda there are some very good drills of *Hardwickia binata* sown in 1908 and in Yerlampalli in the operations of 1910 the seedlings of all species are doing well. In most other places the seeds either do not germinate or more often germinate and die off. The operations in *North Cuddapah* have not been a success, the method being ordinary dibbling. In *Chittoor* the dibbling of Red Sanders which has proved so successful in reafforesting the Chittoor Reserve was continued in Chase's Hill and Reddigunta but the results were poor owing to the drought.

(*c*) *Operations for the Improvement of the Growing Stock.*

19. *Improvement Fellings.*—The timber fellings of *North Cuddapah* are said to be improvement fellings but as only the saleable species and especially *Red sanders* are cut it is very doubtful if there is much improvement.

Thinnings.—The Kodur plantation was thinned and 407 *Red sanders* trees, besides other species, were taken out. The plantation is very crowded and heavier thinnings will have to take place in future.

Creeper cutting was carried out in practically the whole circle.

Fencing.—In *Bellary* fencing was done in the Adōni, Alur and Bellary Ranges.

In *Anantapur* four miles four furlongs of dry thorn and prickly pear fence were made and 13 miles of stone wall constructed.

Bunding of streams.—This was again carried out in the Adōni, Alur, Bellary, and Hospet ranges of *Bellary* district, but there is a tendency not to define the streams to be bunded which results in the work left to lower subordinates being unchecked.

Some good work in this direction was done in the Palmaner Range of *Chittoor district* and is being extended to other ranges. A start was made also in *North Cuddapah* and *Chingleput* but the first attempts were feeble.

(*d*) *Experiments on Species.*

20. *Sandal.*—The experiments with this tree were conducted many years ago, but the real effects of the experiment are now coming to light. In *Chittoor* some topes were planted with sandal and this tree is extending itself naturally to the surrounding forest. About 4 square miles of the Nellipatla Reserve were found to be well stocked with seedlings up to 15" girth (about 20 years old). Sandal was also found in the Pattikonda and Palmaner Reserves. Trese were also found near

Madanapalle in the Madanikonda Reserve. At Horsleykonda the trees planted in the Forest garden have spread to the surrounding forests for about $\frac{1}{4}$ mile in 3 directions.

In *East Cuddapah* a single tree raised at Mogalipenta has caused young sandal to spring up all round this station. The plantations of Kodur and Upparapalle are now full of young Sandal resulting from trees put down in 1880–83.

In *Bellary* the spread of Sandal in Ramandrug is very noticeable and trees have been found in the areas below ghats in the Sivapuram Reserve.

In *Anantapur* Sandal has become established in the Amagundapaliam Block through the cultural operations undertaken some five years ago.

This spread of Sandal has increased interest from the fact that immature trees extracted from the Kodur plantation have produced a fair proportion of scented wood, which, on analysis, has proved to be in no way inferior in oil value to that grown on the hills.

Swietenia Mahogani.—The seed put down in *Nellore* this year failed; but the older plants continue to do well and this is a useful auxilliary to the Sriharikota plantations. In *Guntūr* the result has not been satisfactory though some trees survive. In *East Cuddapah*, only 11 plants now survive. In *Chittoor* the plants in Whiteside's Garden and Chittoor Reserve are doing well.

Swietenia Macrophylla.—This species is also found useful in *Nellore* and about 700 young plants were raised. In *East Cuddapah* a few plants were put out and there are a good number existing in the Kodur plantation but further experiment with Mahoganies in this division is undesirable.

Acacia auriculiformis.—This species continues to be a useful tree in *Nellore* and has been introduced into *Guntūr*.

Eucalyptus Globulus.—The trees in Palmaner plantation of *Chittoor* and in *North Cuddapah* are fairly healthy but nothing more is being spent on this experiment which is not likely to be of much use.

Dalbergia Sissu.—This tree has been grown most successfully in the Moka plantation of the *Bellary District* where it is now the principal species. In *Guntūr* some old but poorly grown trees were cut back and root suckers are coming up in large quantities. In this district the tree is very useful and growing fairly well. It has been also introduced into *Nellore* but does not grow very well.

Catalapa Speciosa.—The experiment with this tree in the Moka plantation has been a failure. Only 7 plants now survive.

Sesbania.—Experiments were made with Sesbania in all districts except *Bellary*, *Anantapur* and *North Cuddapah*. The results were varied but the best outturn was obtained from a plot in Mamandur forest of *Chittoor* district. The experiment was not however a success on the whole as the seed was received too late. It is being continued.

5. Exploitation.

(*a*) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

21. Two Casuarina coupes (400 acres) in *Guntūr* and two in *Nellore* (251 acres) were clear felled.

In *Bellary* 564 acres of Babul were clear felled with a view to cultural operations.

(2) *Selection Fellings.*

22. In *Guntūr* under the Babul Working Plan three arrear coupes were completed and three current coupes were worked.

In *North Cuddapah* fellings were made in 15 timber and 4 bamboo coupes. Selection fellings were also carried out over 13,084 acres (3 Working Circles) in *East Cuddapah* and also in the Mamandur Working Circle of *Chittoor* the primary object being the extraction of *Red Sanders*.

Bamboos were also worked under selection in the last named division.

(3) & (4) *Improvement and Coppice Fellings.*

23. Coppice is the principal method of working in this circle and the following statement shows the number of coupes felled and the area :—

District.	No.	Area in acres.
Bellary	5	895
Anantapur...	3	177
Guntur	10	2,223
North Cuddapah	23	3,417
East Cuddapah	21	1,642
Nellore	25	7,728
Chingleput	54	4,126
Chittoor	36	3,055 (2,216 acres actually worked)

(5) *Unregulated Fellings.*

24. These fellings still persist in the Kadiri Range of *Anantapur* and in *North Cuddapah* and *Nellore*. The necessity for their continuance has not been explained.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

25. The right to collect minor produce was as a rule leased out. Exception was made in the case of two ranges in *Chittoor*, and one in *Nellore*. In the case of earth, stone and manure leaf however permits are still issued.

(2) *Extraction of Fodder.*

26. In *Bellary*, 475 tons of grass were removed free by Mr. Howes, and 971 tons by the Military department at Rs. 2 per ton. Where the grass was unmarketable free removal by the ryots was allowed. There were said to be no cases of abuse, though in my short tour through the district I personally detected two such cases.

In *Anantapur* the free removal of grass was allowed in all the areas not under cultural operations. The quantity so removed is estimated at one million head loads.

In *Guntur* four coupes were leased out, and permits issued in others.

In *North Cuddapah* in 13 blocks permits were issued, and eight blocks were leased out. Free removal was allowed elsewhere and 4,000 tons were removed. The concession was not abused, but the villagers were not forward in putting out fires.

In *East Cuddapah* the free removal of grass was allowed in all places, except in localities which were leased out as a punishment as the villagers were suspected of having set fire to reserves. The quantity removed is estimated at 3,300 tons of grass. The concession was not abused.

In *Nellore* free removal was not allowed. The grass was removed either on permits or blocks were leased out.

In *Chingleput* no grass was extracted for want of demand.

In *Chittoor* the concession to remove grass by head-loads for domestic purposes was continued.

(3) *Hay making.*

27. In *Guntūr* 231 tons were collected during the year at a cost of Rs. 785. Two hundred and seventy-two tons of hay were sold including the balance of last year's stock.

In *North Cuddapah* 18 tons were collected and 37 tons disposed of.

In *East Cuddapah* 19 tons were extracted, out of which, 11 tons were sold and 8 tons used for Government bulls.

(4) *Grazing.*

28. The revenue realised during the year was Rs. 2,49,836 against Rs 2,68,393 of the previous year. The decrease in grazing occurs in all divisions except *Anantapur.* It is most marked in *Bellary* and *Guntur.* In the former it is ascribed to the exclusion of goats from the Western taluks and the migration of sheep along with the goats to Mysore. In *Guntur* it is ascribed chiefly to the bad season. The Delta cattle found the grazing in the upland taluks so poor that they returned without taking out licenses. Any decrease in the number of cattle grazed in this Circle is to be welcomed more especially in these two dry districts. A scheme for the limitation of cattle in Guntur was submitted but is being held in abeyance pending the Report of the Forest Committee, which was appointed in July last to enquire into this question.

(*b*) AGENCY OF EXPLOITATION.

29. Form 76 presents some very curious figures. Taking the figures therein it would appear that the chief timber districts are (1) Guntur, (2) Anantapur, (3) Chingleput and the lowest in the scale are (1) North Cuddapah, (2) Chittoor, (3) East Cuddapah. The converse is of course the case and this anomaly is brought about by the inclusion as timber of all trees cut on darkhast lands.

(i) *Departmental Agency.*

30. *Timber.*—The quantity extracted during the year is less than that of the previous year by 1,061 c. ft. The total amount removed is considerably less than by purchasers.

Fuel.—Although the departmental system of extraction has now almost entirely given place to contract working the full effect does not show itself in the figures given in Form 76. Under departmental collection, though there is a fall of 772,658 c. ft. as compared with last year, yet over $3\frac{1}{2}$ million c. ft. were extracted departmentally. The true result of this year's work will not be evident till next year as in many cases departmental work had to be retained until the end of March in order to complete contracts.

Bamboos.—As some coupes were leased there was a decrease in the outturn by 25,501.

Minor produce.—Compared with the previous year, there was a fall of 36,182 maunds. The figures are somewhat misleading as they include the collection of hay. Departmental operations for the collection of hay were given up in *Bellary* and restricted in *Guntur* and *East Cuddapah.*

(ii) *By purchasers.*

31. (*a*) *Timber.*—There was an increase of nearly 190,000 c. ft. due to the large sales of trees on darkhast lands.

(*b*) *Fuel.*—The increase of 670,000 c. ft. is due to the gradual change to the contract system of work.

(*c*) *Bamboos.*—There is a decrease of 532,000. The system of leasing Bamboo coupes is gradually being introduced.

(iii) *Rights and Privileges.*

32. The only actual right allowed was the grazing of 586 cows free in the *East Cuddapah* district.

A privilege was allowed to cut grass free in the reserves of *Bellary*, *Anantapur*, *North and East Cuddapah* and *Chittoor.* At a rough computation this privilege was worth about Rs. 90,000.

The cessation of the Jali (Babul Pod) sales is another valuable privilege granted by Government during the year.

(iv) *Free grants.*

33. The subjoined statement gives particulars of free grants :—

—	Timber.		Fuel.		Bamboos.		Grass and grazing.	Other minor produce.	Total value.
	C.ft.	Value.	C.ft.	Value.	No.	Value.	Value.	Value.	
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
Right holders	..	..	..	..	..	..	110	..	110
Free grantees	57,715	5,651	41,568	807	24,760	314	100	272	7,144
Total ..	57,715	5,651	41,568	807	24,760	314	210	272	7,254

(*c*) Outturn and Sources of Forest Produce.

34. The following abstract gives the total outturn :—

Agency of exploitation.	Timber in cubic feet including sandalwood		Fuel in cubic feet.		Bamboos in numbers.		Minor produce (including grass and grazing) gross value in rupees.	
	1910-1911.	1911-1912.	1910-1911.	1911-1912.	1910-1911	1911-1912.	1910-1911.	1911-1912.
1	2	3	4	5	6	7	8	9
By Government agency.	88,830	87,769	4,291,576	3,518,918	239,427	213,926	7,801	11,934
By purchasers (including confiscation).	857,391	1,054,247	870,555	1,549,646	2,062,637	1,530,595	5,43,575	6,68,445
By right holders	..	..	..	..	..	..	298	110
By free grants	26,162	57,715	51,441	41,568	4,990	24,760	425	372
Total ..	972,383	1,199,731	5,213,572	5,110,132	2,307,054	1,769,281	5,52,099	6,80,861

The variations have already been explained. Form No. 74 gives the various rates for grazing fees. The number of animals licensed to grazing on payment was 1,490,768 against 1,604,893 in the previous year.

CHAPTER III.—FINANCIAL RESULTS.

35. The financial results of the year compared with those of the last year and with the previous quinquennial average show a net increase of Rs. 57,299 and a decrease of Rs. 1,26,156, respectively :—

—	1911-1912.	1910-1911.	Average of preceding five years.
	Rs.	Rs.	Rs.
Revenue	12,26,569	* 11,43,599	12,72,352
Expenditure.			
A. Conservancy and works including Refunds.	4,79,178	* 5,02,916	4,43,377
B. Establishments	3,61,907	* 3,12,498	3,17,335
Total of A and B ..	8,41,085	* 8,15,414	7,60,712
Net Results ..	+ 3,85,484	+ 3,28,185	+ 5,11,640

* Includes figures for the Chittoor district for the whole year while in Form No. 80 only three months actuals are given.

The gross receipts are slightly less than the average and Rs. 82,970 more than in the previous year.

Owing to the interchange of districts for the formation of the new Circle, the comparison cannot be regarded as entirely correct as for some districts, *e.g.*, in *Chittoor* separate figures are not available prior to last year.

The net results show a surplus of 11·36 per cent. over those of the previous year.

About 38·7 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 61·3 per cent. to exploitation, etc. It will be observed from Form No. 79 that the value of timber and other produce at sale depots at the close of the year amounted to Rs. 32,583 which is less than the previous year by Rs. 38,187. The outstanding revenue at the beginning of the year was Rupees 1,97,141–8–1 and Rs. 2,31,428 at the close of the year. Form 82 shows that the balance due to the department has been largely increased in *Nellore*. This is due almost entirely to the lease amounts due on coupes sold towards the close of the year, contract being substituted for departmental working.

Receipts.

(i) *By Departmental Agency.*

	Rs.
Timber	+ 6,232
Fuel	− 40,205
Bamboos	+ 1,735
Minor produce	+ 1,806

The figures show a comparatively small increase under all heads except under fuel. The decrease under fuel is due to the abolition of departmental sale depots in several districts.

(ii) *By purchasers.*

	Rs.
Timber	+ 21,506
Fuel	+ 49,694
Bamboos	+ 5,073
Grazing	− 18,557
Other produce	+ 46,147

The balance is in favour of the year except under the head of grazing. The increase under timber is general to all districts and is due chiefly to the value of trees on darkhast lands. The increase is however greatest in *North Cuddapah* where 8 timber coupes have been sold standing to contractors.

The increase under fuel is also spread over all divisions and is due to the adoption of the Contract system. It is counterbalanced to a considerable extent by the loss shown under Departmental working.

The increase under Bamboos is due to a similar cause.

The loss under Grazing has been fully explained in Chapter II.

The very large increase in Other produce is due to successful *tangedu* sales in Anantapur, the combination amongst contractors noted in the previous report having been overcome. There is also a large increase in *Bellary* but this is chiefly due to the collection of 5 *Tangedu* Bark kists during the year.

(iii) *Miscellaneous including confiscated drift and waif wood.*

+ 8,388.

This is a fluctuating item and the increase does not call for any detailed explanation.

Expenditure.

A.—Conservancy and Works.

The total expenditure was less than that of the previous year by Rs. 29,216 and was chiefly due to the cessation of departmental fuel operations in several districts. In *Nellore* alone there was a decrease of over Rs. 30,000 under the head of A–1 (b).

B.—Establishments.

+ Rs. 49,409.—The increase is due to the time scale pay of Provincial officers but also to increased establishment entertained for the *Chittoor* district. For a great part of the year there was no separate District Forest Officer for the old South Cuddapah division. In addition an increase of subordinate establishment was sanctioned when the Vayalpad range was sub-divided.

An Assistant Conservator and a Probationary Extra Assistant Conservator of Forests were attached to the *Guntūr* district.

CHAPTER IV.—ADMINISTRATION.

36. The following officers were in charge of the Circle during the year :—

Mr. T. P. Peake up to the 19th July 1911.

Mr. H. B. Bryant from 20th July 1911 to 28th November 1911.

Mr. P. M. Lushington from 29th November to the end of the year.

An Assistant Conservator, Mr. F. R. Madan, was attached to this circle from 24th December 1911 and posted to Guntūr.

37. *New Circle.*—During the year a fourth Circle was formed and the Central Circle lost the districts of North and South Salem, North and South Arcot and Trichinopoly taking over the districts of Bellary and Anantapur.

38. *New Ranges.*—Four new ranges were formed as follows :—

District.	Old Range.	New Ranges.
Cuddapah	... Pullampet	Kodur. Rajampet.
Nellore	... Rapur	Rapur. Nellore.
Chittoor	... Vayalpad	Vayalpad. Madanapalle.
Chingleput	... Chingleput	Chingleput. Saidapet.

In *Anantapur* the names of some of the ranges were changed and in the case of Penukonda and Madakasira some small changes were made in the territorial distribution.

39. *Conduct of the Executive establishment.*—The conduct of the executive staff was on the whole considered satisfactory except in *Bellary*. Two Deputy Rangers were dismissed, two Rangers and one Deputy Ranger removed from the service and one Ranger reduced.

40. *Protective staff.*—This staff still continues to be unsatisfactory. One Tannadar was prosecuted and convicted. One Forester, 9 Guards and 29 Watchers were dismissed, 6 Foresters, 14 Guards and 17 Watchers removed and 6 Foresters and 4 Guards reduced. Punishment was far more frequent in *Bellary* than elsewhere.

41. *Ministerial establishment.*—The conduct of the ministerial establishment was on the whole satisfactory.

42. *Cases of murder.*—One forest guard in *Anantapur* and one forest guard and three watchers in *Guntūr* were murdered.

43. *Health of establishment and casualties.*—The health of the establishment was very bad in *North Cuddapah* where one forest guard, one watcher and one rangepeon died. Fever was very prevalent in the cold weather whilst in the hot weather many of the staff broke out in boils. In parts of *Nellore* and *Chittoor* there was a good deal of fever.

Exclusive of *North Cuddapah* six guards and two watchers died.

44. *Relations between Revenue and Forest officers.*—The relations between Revenue and Forest officers were cordial in every district. The District Forest Officers and Rangers attended jamabandi camps. The only complaint mentioned is one in *North Cuddapah.*

45. *Service books* were maintained and verified in all Districts.

46. *Conservator's inspection.*—The Districts of *Anantapur*, *Bellary*, *Guntūr*, *East Cuddapah*, *Chingleput* and *Chittoor* were inspected during the year and all Offices except *Nellore*, *Chingleput* and *Chittoor*.

The Acting Conservator was unable to do any camping as he was engaged in clearing off heavy office arrears. The permanent Conservator spent 126 days in camp.

47. *Touring of District Forest Officers.*—All the District Forest Officers except those of *Guntūr* and *Nellore* spent more than six months on tour. The District Forest Officer, *Guntūr*, could not spend more time on tour as he had to clear up the arrears of the office with the aid of the special staff sanctioned. In *Nellore* there were numerous changes of District Forest Officers.

48. *Inspection of Range offices.*—All Range offices were inspected by the District Forest Officers except one in *Nellore* and two in *Chingleput*. The omission in the latter was due to the illness of the District Forest Officer.

49. *Audit of accounts in District Forest Offices.*—All the District Forest Offices were inspected by the special staff of the Accountant-General's Office and the results reported to be satisfactory.

50. *Imperial Forest College, Dehra Dun.*—Two Rangers returned from Dehra Dun and one Provincial service candidate returned after the first year's course. He will be sent for the second year's course in November next.

51. *Forest College, Coimbatore.*—Seven Rangers and five Deputy Rangers were deputed to the Coimbatore Forest College. One Ranger did not join on account of ill-health, while one Deputy Ranger has been returned to his district to answer a charge of extortion.

52. *Vernacular Training school.*—One Forester and twelve Guards were deputed to the Vernacular Training school at Giddalore. The Forester was sent back as he was found unfit.

53. *Work and service of superior officers.*—The remarks of the Collectors on the work of the District Forest Officers are shown below :—

The Collector of *Bellary* testifies to the good work done both by Rao Bahadur V. Alwar Chetti and Mr. A. F. Minchin.

The Collector of *Guntūr* considers Mr. Scot a zealous and hard working officer and his work deserving of the highest praise.

The Collector of *Cuddapah* says that Mr. Whitehead is indefatigable in the discharge of his work.

The Collector of *Nellore* remarks on the numerous changes and says that every officer tried to do his best but that the frequent changes were not conducive to efficient working.

Conservator's remarks.—Messrs. Jackson, Scot and Whitehead have in my opinion all done capital work.

CHAPTER V.—GENERAL.

54. *Realizations of revenue from the usufruct of toddy yielding trees on Government wastes and poramboke lands.*—The revenue realised was Rs. 55,570 against Rs. 47,630 of the previous year.

55. *Measures adopted to encourage the growth of manure leaf yielding plants.*—Experiments were made in growing *Sesbania aculeata* with a view to the distribution of seed to the ryots.

In *Guntūr* the yield was $4\frac{2}{3}$ measures from 2 sown. In *East Cuddapah* 12 measures were sown and only 3 collected but more was expected. In *Nellore*, although the experiment failed in the largest plot, $39\frac{1}{3}$ measures were collected from 16 sown. In *Chingleput* $3\frac{1}{2}$ measures were sown and only $2\frac{1}{2}$ collected. In *Chittoor* 5 plots produced very poor results but at Mamandur the results were surprisingly good, 21 measures being collected as against 2 sown.

The comparative failure of the experiments is due to the seeds being received late in the year and the season being exceptionally dry.

No seed was available for distribution to the ryots. The seed collected is being sown during the current year.

RULES UNDER THE FOREST ACT.

56. *Timber Transit Rules.*—The existing rules are said to have worked satisfactorily in *North Cuddapah* and *Guntūr*. In *East Cuddapah* and *Chittoor* the rules are under revision.

57. *Rules under section 26 of the Forest Act.*—The privileges allowed under these rules were generally availed of by the people and there were no serious complaints or abuses.

58. *Inventory of valuble stock.*—The prescribed registers have been maintained and verified in all the divisions.

59. *Rain gauges.*—Rain gauges were maintained in all Divisions except *Chingleput* and the readings properly recorded. Two rain gauges in *North Cuddapah* and one in *Bellary* were newly set up during the year.

60. *Supply of Forest Produce.*—The supply of fuel was no longer made through departmental depots except in a few isolated instances in *Anantapur* and *North Cuddapah*.

In *Bellary*, *East Cuddapah* and *Nellore* all the coupes were sold standing. In *Anantapur* only three coupes are worked and those for departmental supply. In *Guntūr* the cutting is done departmentally but the wood is sold to the first comer in the coupe and this system is working well.

In *North Cuddapah* seven coupes were sold standing, in three cases wood is sold from the coupe and in ten cases work is departmental.

In *Chingleput* 38 coupes were sold on contract and 16 worked departmentally. Departmental working was only temporary to keep up the supply and now all departmental depots have been closed.

In *Chittoor* 30 coupes were sold standing. In six the work is departmental, but there is no departmental depot as the wood is taken straight to the railway yard and sold to the railway.

61. *Rules for the guidance of Forest officers in compounding forest offences.*—*Vide* paragraph 3 (*a*) of Chapter II.

62. *Cultivation in reserved forests.*—In *Bellary* a capital system has been introduced of inducing the ryots to make continuous mounds and cultivating the land between. The area under treatment is now 300 acres and there has been success in Alur as well as Adōni. Sowings of 1908 have produced seedlings 3′ to 14′ high, whilst those of 1909 and 1910 have seedlings of 2′ and 2½′ high on the average.

In *East Cuddapah* there were no fresh grants but old pattas were renewed.

No cowle pattas to encourage Casuarina plantation were granted in *Nellore*.

63. *Suits.*— Of the suits referred to in last year's report that in *Nellore* was completed. The Letters Patent Appeal was decided in August in favour of Government. In the *Guntūr* case in which the property was attached it was found that there were other creditors and it is not expected that more than Rs. 30 will be recovered. In *North Cuddapah* the suit by the Jagirdhar of Putlampalli for the recovery of a portion of a reserved forest is pending in the District Court.

64. *Live-stock.*—The particulars regarding live-stock are given in form No. 84. It will be seen that Government bulls are used now only in the District of *Chittoor* where they are of great use for carrying out railway fuel contracts.

65. *Mining.*—(*a*) *Gold.*—In *Bellary* no fresh licenses were issued and the one granted to Messrs. Green Grass Petre Tonnie was cancelled by Government.

In *Anantapur*, the Anantapur Gold Fields Company, Limited, hold six prospecting licenses over an area of 9,769 acres. The North Anantapur Gold Mines, Limited, continue their mining lease for one square mile.

The Jibutil Gold Mining Co. have applied for a mining lease of three square miles in Ramagiri.

(*b*) *Steatite.*—Mr. A. Ghose of the Indian Minerals Company, Betamcherla, has taken out a prospecting license for steatite in Nirjampalli reserve.

(*c*) *Tin, Copper, Iron and Lead.*—In *North Cuddapah* no fresh licenses were issued and the lease granted last year was cancelled as no operations were carried out.

Mica and Mica Mines.

66. *Applications—Nellore.*—Twenty applications were pending at the commencement of the year and 71 were received during the year, of which 59 were disposed of leaving a balance of 32 at the end of the year.

One of the applications was for "garnets" in Sydapuram, Rapur taluk.

Mines in Government lands (State mines).—There were 43 sanctioned mining leases at the end of 1910–1911, of which three were relinquished and 14 cancelled for non-working leaving a balance of 26. To these seven were added during the year leaving a total of 33 working mines at the end of June 1912. Four exploring and 14 prospecting licenses were also issued during the year. Only five mines were worked satisfactorily and without break during the year. A suit is pending against M.R.Ry. A. Subba Nayudu who failed to give peaceful possession of the mines when they were resumed by Government.

Patta land mines (shared mines).—There were 25 patta land mines at the beginning of the year. Permission was revoked for two mines for non-work and three were relinquished during the year. To these three mines were added during the year leaving a total of 23 at the end of June 1912. Two mines worked satisfactorily during the year.

Mines in permanently-settled estates (private mines).—There are 11 mines in Shrotriem lands, of which the Kalichedu and Zogipalle mines were worked satisfactorily. The yield is 317,210 lbs. of Mica of all classes, estimated at Rs. 1,00,458.

Illicit mining.—There were four cases of illicit mining, two in Government and two in Patta lands. Of the two cases in Government lands, one ended in conviction and the other is still pending. Of the two cases in Patta lands, one offender was fined Rs. 100 and the other excused.

Outturn and royalty.—The results of the year under report as compared with those of the previous year show an increase both in the output and royalty realised. The increase is partly due to the resumption of work in some of the mines which remained idle in the previous year and partly to the systematic work in some mines.

Year.	LBS.	OZ.	RS.
1910–11 ..	445,531	8	13,551
1911–12 ...	668,872	10	16,983

Financial Results.—The revenue realized during the year was Rs. 19,997 against Rs. 17,708 in the previous year and the expenditure during the year under report was Rs. 4,012 against Rs. 3,402 of the previous year.

Labour.—One thousand seven hundred and ninety-six persons were employed against 1,900 in the previous year. The decrease is due to coolies being employed at the Shrotriem mines and various splitting depots.

Accidents.—There were no accidents during the year.

Ventilation and lighting in tunnels.—The ventilation in the mines has not in any way been improved. Where natural light is insufficient naked candles are used.

Inspection by superior officers.—The District Medical and Sanitary Officer inspected eight mines, the Divisional Officer seven mines, and the Chief Inspector of Mines twenty-eight.

Prospects of the industry.—The industry shows signs of improvement and the market for mica is favourable.

MADRAS DEPOTS.

67. The Sale depots at Barber's Bridge, Royapuram and Kondi tope were abolished during the year.

From 10th October 1911 the depots at Trevelyan's basin and Salt Cottaurs were leased to contractors but abolished from the end of March; the former being retained to the end of April.

The following shows the sources of supply, the quantity disposed of, the revenue realised and expenditure incurred during the year:—

Firewood and Charcoal.

District.	Quantity disposed of.	Revenue realised.	Expenditure incurred.
	TONS.	RS.	RS.
Nellore	7,489	62,748	31,058
East Cuddapah	3,051	26,389	19,714
Chingleput	139	1,715	141
Chittoor	155	1,327	598
Total ...	10,834	92,179	51,511
Bamboos.			
	NO.		
Chittoor	79,610	1,547	265
Total ...	79,610	1,547	265
Hay.			
	LBS.		
East Cuddapah	790	3	...
Total ...	...	93,729	51,776
Add Madras Depot establishment charges under B.	...	...	1,718
Grand total ...	..	93,729	53,494

The whole of the distribution of fuel in Madras is now in the hands of private individuals and it will be impossible for the department again to undertake such supply as Trevelyan's basin, the key-note of the position, has been abandoned.

Financial Results.

	1910-1911.	1911-1912.
	RS.	RS.
Revenue	1,26,334	93,729
Expenditure	81,361	53,494
Net results	44,973	40,235

The net results of last year show a profit of 35·6 per cent. whilst the profit this year amounts to 42·9 per cent. The whole of the stock was cleared and this accounts for the increased profit.

MADRAS,
24th September 1912.

P. M. LUSHINGTON,
Conservator of Forests, Central Circle.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

SOUTHERN CIRCLE, 1911-1912.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1
	2. Forest settlement	2
	3. Demarcation	3
	4. Forest surveys	4
II	Management of State forests—	
	1. Regulation of management—	
	(a) Preparation and control of regular working-plans ...	5
	(b) Annual plan of operations	6
	2. Communications and buildings—	
	(a) Roads and bridges	7
	(b) Buildings	8
	(c) Miscellaneous works	9
	3. Protection of forests—	
	(a) General protection	10 to 12
	(b) Protection from fire	13 to 15
	(c) Protection from cattle	16
	(d) Protection against injuries from natural causes ...	17
	4. Sylviculture—	
	(a) Natural reproduction	18
	(b) Artificial reproduction	19 & 20
	(c) Operations for improvement of the growing stock ...	21
	(d) Experiments	22
	5. Exploitation—	
	(a) System of management—	
	(i) Major forest produce	23 to 26
	(ii) Minor forest produce	27 to 30
	(b) Agency of exploitation—	
	(i) Departmental agency	31
	(ii) By Purchasers	32
	(iii) Rights and privileges	33
	(iv) Free-grants	34 & 35
	(c) Outturn and sources of forest produce	36
III	Financial results	37
IV	Administration	38 to 52
V	General	53 to 72
	Appendices A to E and Forms Nos. 65 to 85.	

FOREST ADMINISTRATION REPORT

OF THE SOUTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1912.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

Reserved forests.—An addition of 344 acres by transfer from reserved lands and a deduction of 41 acres by disafforestation were the variations during the year.

Reserved lands.—Seven small areas aggregating 109 acres were newly constituted and 344 acres transferred to Reserved Forests. The total area of Reserved Forests in the circle at the close of the year was 4,412 square miles.

2. Forest Settlement.

2. One small area in Rāmnād and seven in Tinnevelly were finally settled during the year. Twelve small additions aggregating 262 acres were brought under settlement. The balance under settlement was 37 blocks, but the actual settlement of 23 of these was completed.

3. Demarcation.

3. Ninety-six miles of permanent demarcation was carried out during the year at a cost of Rs. 3,667. The progress was chiefly in Madura where the total expenditure was Rs. 3,896 against Rs. 5,817 in the previous year. The demarcation of the reserves of Tandigudy Range as per revised boundary description is in progress and when completed, there should be no more encroachments in the reserves of the Palni Hills. During the year, revised notifications for three reserves of Tandigudy Range (Southern slopes, Kaduguthady and Koviladi) have been prepared by the Special Deputy Collector. In South Arcot the permanent demarcation is completed. Twenty-one fuel coupes were demarcated at a cost of Rs. 201 and rectification of defects in coupe lines and re-clearing of portion of boundary lines in three reserves were done at a cost of Rs. 21 ; and coupe sign boards were prepared to the value of Rs. 128. In North Salem, 5 miles of reserve boundary and 71 miles of coupe lines were cleared and demarcated at a cost of Rs. 475. In South Salem, Rs. 335 was spent for re-clearing reserve boundaries and for cutting new coupe lines. In Trichinopoly, 19½ miles of reserve boundary including 13½ miles of the boundary between Reserved Forests of Trichinopoly and Salem, were demarcated at a cost of Rs. 172. Ninety-four stone slabs for the boundary and 24 for rights of way were prepared and planted and 104 miles of boundary and coupe lines were re-cleared at a cost of Rs. 552.

Six thousand three hundred and nineteen miles were re-cleared by subordinates free of cost. Four hundred and forty-nine miles remained to be demarcated at the end of the year, of this 430 miles are in Madura.

4. Forest Surveys.

4. No work was undertaken by the Survey of India Party during the year. In South Vellore, survey of coupes was done departmentally. In South Arcot, the boundaries of 79 out of 129 Reserved Forests were verified by Range Officers and their subordinates with reference to the final notifications. A Surveyor was employed in North Salem in the verification of reserve boundaries, aligning roads, preparing estimates and demarcating reserves and fuel coupes. In Madura, the services of the Surveyor appointed to assist the Special Deputy Collector were retained throughout the year. One hundred and fifteen square miles remained to be surveyed and final maps have to be prepared for 194 square miles of Reserved Forests at the end of the year.

District Forest Reference and other maps referred to in Section 80 of the Forest Code were maintained and posted.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working Plans.*

5. *Preparation.*—In South Arcot district a working plan for the Vriddhachalam Working Circle of Cuddalore range was sanctioned and another for the Coast Casuarina and Mangrove Reserved Forest of 13·74 square miles was prepared and submitted to the Board for sanction. A plan for Vallam Fuel Working Circle in Trichinopoly and another for Puliangudi Working Circle in Tinnevelly and revised plans for Cumbum and Palamedu ranges in Madura were sanctioned during the year. A provisional working plan for the Arcot Plantations in North Vellore and another for the Chengam Javadis in South Vellore are in force. The working plan for the sandalwood area in Tiruppattur range remains to be revised and the plans prepared for the padugais and upland reserves of the Kulittalai and Udayarpālaiyam ranges of Trichinopoly district were returned to the District Forest Officer for revision.

Control.—The following were the chief deviations from the existing working plans :—

In North Vellore, out of 210 arrear coupes only 18 were worked in addition to the 14 current coupes; the rest were not worked for want of demand. In South Vellore, 40 coupes were not worked for want of export roads, sufficient staff and proper demand; 3 coupes were worked in advance as the growth on the arrear coupes was too poor. In South Arcot, the prescriptions of the Kallakurichi Range Working Plan were not fully worked up to owing to absence of demand for fuel. In North Salem, the fellings are generally behindhand which is due to the fact that the Working plans were prepared principally with the object of supplying fuel to the Railway Company and this demand failed after a few years. In South Salem, work in 17 out of the 30 sanctioned Working circles was carried out and fellings are in arrears owing to want of means of transport to places where there is a demand. In Trichinopoly, five Working circles in Musiri, four in Nāmakkal and the Tirumulavasal Casuarina Plantations in Tanjore were not worked. In Tinnevelly range babul areas, there was advance working as in previous years for the supply of Palamcottah Jail.

(*b*) *Annual Plan of Operations.*

6. Besides the deviations mentioned in paragraph 5 *supra*, the only important deviations were :—*Tinnevelly.*—Coupe XII of Kalakkad was worked departmentally instead of by contract. *Trichinopoly.*—Departmental fellings were stopped and coupes leased out with a view to carry out the policy of Government and to encourage private enterprise. The proposal to construct a forest bungalow at Tirumanur was abandoned as a pukka bungalow is proposed to be built there by the Public Works Department. *South Salem.*—The estimate for the construction of the road from Panaimarathupatti to Tirumanur was delayed for want of a surveyor for tracing the road and the construction of rest houses at Mayambadi, Sandamalai, Achankuttapatti, Mullukurichi and Chitlingi were postponed for want of funds.

North Salem—Several works under roads and buildings were not carried out as three ranges were in charge of Probationary Rangers for the greater part of the year and proper supervision was not easy on account of departmental operations under timber, fuel and bamboos and fire tracing operations which fully occupied the time of the staff. One bamboo block in Dharmapuri and four blocks in Hosur were not leased out, but were worked on the permit system ; minor cultural operations were not carried out except in Salem West Range where they could be carefully controlled. *South Arcot.*—The construction of quarters for Forest Guards and Watchers and sinking a well at Devanur were given up as they were found unnecessary ; the rest house at Shanikulam was not completed owing to the slackness of Range Officers and Quarters for forest guards and watchers in Arasampet and Takarai North Working Circles could not be completed owing to the late sanctions. *South Vellore.*—The construction of a road from Andiappanur to Singarapet, a cart-track from Tiruppattur to Kottur, a rest house at Shenbagatope and another with outhouses at Puliyur, Range Officer's quarters at Tiruppattūr, Subordinates' lines at Melravandavadi, Pudupalayam and Melchelampadi and a Sandalwood godown at Pudupalayam, digging well at Melravandavadi and planting operations in Thippakadu Working Circle and in felled coupes of Tiruppattūr were not undertaken for want of funds and sufficient staff. *North Vellore* —Repairs to three roads and three bungalows and digging a well in Pinnathurai Compound were not carried out on account of change of staff in the Ambur range.

2. Communications and Buildings.

(*a*) *Roads and Bridges.*

7. The total expenditure on communications during the year amounted to Rs. 36,076 as compared with Rs. 36,699 during 1910–11. In North Vellore 6 miles of Rangampet-Nellipatla Ghat road was constructed and in South Vellore 3 miles of cart track from Komattiyur to Patrakad 12 miles of road from Andiappanur to Kambugudi and 8 miles of Chengam-Chekkadi road. In North Salem, the work done consisted of roads from Palakode to Kesarguli and from Kadayampatti to Kurumbapatti, branch road connecting Danishpet bungalow to the main Local Fund road, and an approach road to Karadiyur Forest bungalow and portions of the Vadugampatti Lokur road and from Maharajagadai coupe VII to Guruvianyanapalli. In Madura, 8 miles of bridle paths and 2 miles of Kodamadi road in Tinnevelly were constructed during the year. Large amounts were spent on repairs in Madura.

(*b*) *Buildings.*

8. During the year the total expenditure on new buildings and on repairs for the whole circle amounted respectively to Rs. 24,050 and Rs. 8,917. The new important works were :—*South Vellore*—Part construction of a rest-house at Tanipadi. *South Arcot*—Construction of quarters for one guard and two watchers at Kundalapuliyur and Periyakuppam and subordinates' lines at Arunkurukkai and part construction of a rest-house at Shanikulam and quarters for one guard and one watcher in each of the Arasampattu and Takarai North Working Circles. *North Salem*—Construction of Forester's quarters at Kurumbapatti and subordinates' lines at Lokur and part construction of a bungalow at Medugampalli and Karadiyur. *South Salem*—Part construction of rest-house at Kombuthuki, outhouses to Pudupatti bungalow, Ranger's and subordinates' quarters at Pappireddipatti and guards' lines at Kapputhu. *Trichinopoly*—Completion of Kattalai bungalow and outhouses. *Madura*—Construction of rest-house with outhouse at Pillayarnattam, subordinates' lines at Rajadani, Alampatti, Munur, Vandaravu, Vembadi Shola and Ayyalur. *Tinnevelly*—Construction of quarters for subordinates at Pudupatti and part construction of rest-house and Deputy Ranger's quarters at Chellupatti, lines for subordinates at Kunnikutti and quarters for subordinates at Sivasailam.

(*c*) *Miscellaneous works.*

9. In South Arcot a boat was purchased and located in the back-water canal near the Alappakam Railway Station for the use of subordinates and coolies in Periyakuppam Coast Casuarina Plantations ; new wells were sunk, several of the existing wells and tanks repaired and compounds fenced in several districts.

3. Protection of Forests.

(a) *General Protection.*

10. The following statement gives the number of offences of the year compared with the previous year:—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in the tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.
Cases taken into court ..	10	25	1,048	1,478	442	543	78	121	1,578	2,167
Cases compounded ..	2	2	6,916	6,848	2,987	2,803	324	197	10,229	9,850
Cases undetected ..	240	334	138	159	189	48	8	20	575	561
Total ..	252	361	8,102	8,485	3,618	3,394	410	338	12,382	12,578

The total is higher by 196 compared with previous year. The decrease under illicit grazing is noticeable and there was a large increase under injury to forest by fires. The increase under fire was in South Vellore, South Arcot and Madura, and under unauthorized fellings in all the districts except South Arcot and Trichinopoly. The decrease under illicit grazing occurred chiefly in North and South Vellore, South Salem and Madura and that under "other offences" in North and South Vellore, South Arcot, South Salem and Trichinopoly. In both South and North Vellore there was also a large drop in grazing revenue which, I think, points to lax supervision.

Cases brought to trial.

Year.	Convictions.	Acquittals.	Percentage of failure.
1910-11	1,329	162	10·86
1911-12	1,808	159	8·08

The decrease in acquittals was marked in North Arcot, North and South Salem and Trichinopoly. The percentage of acquittals is still high in Trichinopoly.

Cases compounded.

Year.	Number of cases.	Amount.
		Rs.
1910-11	9,607	83,967
1911-12	9,303	82,140

In fixing the amount of compensation attention was paid to the orders contained in G.O. No. 1990, dated 13th June 1910, communicated in Board's Proceedings Forest No. 186, dated 10th August 1910. The increased revenue under compounding fees in Trichinopoly in spite of the decrease in the number of cases compounded as compared with the previous year was due to the systematic levying of compounding fees in accordance with the orders of Government referred to; in other districts, the rates were below the maximum fixed. The Collector of Madura states that "the rules are reported to have thrown a large and unnecessary increase of work on the Forest establishment from District Forest Officer downwards with little or no corresponding advantage either to the people or to the officers of Government and none at all to the forests for the protection of which the Madras Forest Act was brought into law".

11. The punishments inflicted by Magistrates were on the whole satisfactory. There were no cases of importance calling for special mention. With regard to the principle of making villagers responsible for the occurrence of offences warning notices were published in the District Gazettes and there was no case made out to justify the closure of any reserve to grazing except in Trichinopoly district where one reserve was temporarily closed for one year for extensive illicit fellings.

12. Rewards were granted in three districts. In North Salem Rs. 25 to a ranger for suppression of illicit charcoal burning and theft in Shevaroys South working Circle. In South Salem, Rs. 43 to forest guards and District Forest Officer's peons for detection of offences. In Madura Rs. 15 to a ryot for having arrested the accused in a case of illicit hunting and shooting. Rewards to rangers and peons should be given only in very exceptional cases.

(b) Protection from fire.

13. *Special protection.*—The system of protection continued to be the same as in previous years. The area attempted to be protected was 1,016·45 square miles against 990·59 square miles in the previous year and the area burnt during the year was 17·1 square miles against 13·73 square miles in the previous year. About 77 square miles shown against Trichinopoly under "Special protection" in the previous year's return is a mistake. It should have been shown under general protection. The proportion of successful protection slightly decreased from 98·6 to 98·3 and the cost per square mile of successfully protected area rose from Rs. 11–15–7 to Rs. 13–4–5. The increase was due to increased expenditure in North Arcot, North Salem, Ramnad and Tinnevelly counterbalanced by decrease in other districts.

In Salem South, payment was made to villagers in the Chitteri hills according to results, but no mention is made of this in the district report.

14. General protection from fire was attempted over 3,076 square miles against 2,699 square miles in the previous year; the increase was due to the inclusion of areas in North Arcot, Salem and Trichinopoly not shown in the previous year's return. The percentage of failure as compared with the previous year remains almost the same.

15. The number and origin of fires are given in Appendix D. There were 356 fires burning 30,591 acres against 304 fires and 27,049 acres burnt in the previous year; the increase in the number occurred in North and South Arcot, South Salem and Madura; the area burnt increased by 13 per cent.

(c) Protection from cattle.

16. The area closed to all animals decreased from 702 to 654 square miles which was due to re-opening of areas closed in the previous year in Tinnevelly and Ramnad for incendiarism. Eighty one per cent. of the total area of forests was open to all animals except goats. Goat browsing was allowed in North Vellore over 26 square miles, in North Salem over 58 square miles, and in Madura over no less than 106 square miles; the Conservator is of opinion that goats should no longer be allowed into reserved forests.

The number of cattle impounded during the year is analysed in Appendix E. The figures compared with those of last year decreased from 59,449 to 56,134. The decrease occurred in all districts except South Arcot, North Salem and Trichinopoly. The increase in North Salem and South Arcot was, it is reported, due to better supervision; the decrease in North and South Vellore is in the opinion of the Conservator due to slack supervision and that in Madura was due to want of vigilance or neglect on the part of the subordinate staff owing to the changes of Range officers during the year.

The following statement furnishes the grazing incidence in each district:—

District.	Number of cattle in cow units.	Area.	Number of acres per cow unit.
North Vellore	108,606	270,080	2·49
South Vellore	125,059	448,640	3·58
South Arcot	151,430	207,360	1·37
North Salem	159,434	496,640	3·11
South Salem	107,492	335,360	3·12
Trichinopoly	101,651	215,040	2·11
Madura	144,204	356,480	2·47
Ramnad	7,710	27,520	3·57
Tinnevelly	29,320	84,480	2·88

Note.—One buffalo = Two Cows.
Two sheep = One cow.
One goat = Two cows.

It is a fact that in hilly districts like Salem, North Arcot and Madura there are large areas which are for various reasons seldom or never visited by cattle; the incidence is therefore far more excessive than the above figures show. Proposals to restrict grazing to the possibility of each reserve have been submitted to the Board for several districts; but, pending the result of the Forest Committee's report, it is presumed that no further action will be taken in this matter.

(d) Protection against injuries from natural causes.

17. A large number of saplings of casuarina and other species in Kilminnel Ammundi and Vannivedu plantations on the banks of the Palar (Arcot range) died owing to drought. Numerous undergrowth species in the Polur range are attacked with fungoid disease, but *Randia dumetorum* seems more liable to it than any others. The growth in the Perambalore range was affected by the parasite *Loranthus longiflorus* which attacked *Albizzias and Melias*. In the ghat coppice coupes of Tinnevelly district, it is reported that the browsing of shoots especially of Vengai (*Pterocarpus marsupium*) by Sambur is very noticeable and must have an appreciable effect on the future stock. No considerable damage done by insects is reported from any district.

In South Vellore, North and South Salem and Tinnevelly, no special measures were taken except the cutting of creepers and climbers in coupes worked during the year.

4. SYLVICULTURE.

(a) Natural Reproduction.

18. *North Vellore.*—Reproduction of *Albizzia amara* and teak was successful in fire protected areas closed to grazing; the seeding of teak was fair and that of *Hardwickia binata* very abundant in Ambur and Gudiyattam; but reproduction from seeds except teak was not satisfactory owing to drought. Red sanders in Amerdi plantation seeded well; natural reproduction of indigenous species was also fair. *South Vellore.*—Natural reproduction of *Anogeissus latifolia* on Javadis plateau, Karnatighur and Thaniar reserves was very good and that of *Hardwickia binata* in Karnatighur was excellent; natural reproduction of sandalwood in Javadis was almost *nil* and the root-suckers system of reproduction was also a failure, as the shoots die out in three or four months of their appearance. Natural reproduction of *Acacia sundra*, *Albizzia amara*, *Chloroxylon swietenia* and *Azadirachta indica* by seed droppings was also satisfactory. *South Arcot.*—Regeneration by seed was fairly good all over the district and was marked in babul areas and those covered with *Acacia sundra*, *Chloroxylon swietenia*, *Acacia planifrons* and *Albizzia amara*. In practically all areas, seedlings of *Melia indica* could be found working their way through prickly-pear and other thorny shrubs. *North Salem.*—Natural reproduction from seed has been encouraging in fire-protected areas and areas closed to grazing. Regeneration of *Albizzia odoratissima* by root suckers was good especially in Aiyur reserve and that of teak was kept back by insect-pests which attack the foliage of young plants. Regeneration of sandal was satisfactory especially in the more fertile localities. *South Salem.*—Reproduction was good in Nagalur, Nagur and Varagur reserves of Atur range and was not satisfactory in other parts; seedlings of *Hardwickia binata* were found in large numbers in Kottapatti extension, Chitlingi and Chitteri extension reserves of Harur North range. *Trichinopoly.*—Natural regeneration by seed was much retarded by the very unfavourable character of the season in the Pachamalais and Kollimalais; but seedlings of *Santalum album*, *Anogeissus latifolia*, *Pterocarpus marsupium*, *Terminalias*, *Chloroxylon swietenia*, *Bridelias*, *Tectona grandis*, *Dalbergia latifolia* were, however, abundant in the inaccessible and higher slopes of the Pachamalais. *Madura.*—Reproduction in the unworked evergreen forests was satisfactory. *Tinnevelly.*—Reproduction was fair in the protected areas in all the ranges except Nanguneri. Germination was poor in unprotected areas in Nanguneri and Tinnevelly ranges for want of sufficient rains. Reproduction by coppice was good everywhere in felled coupes and fire-protected areas except in parts of South Salem. Coppice shoots were very successful in Padugais in spite of the devastation by the semi-wild cattle.

(*b*) *Artificial Reproduction.*

Regular Plantations.

19. *North Vellore.*—Many plants, viz., casuarina, Divi Divi, *Albizzia lebbek*, and *Ingadulcis* in the plantations of Arcot range withered and died from excessive drought. Eighty-five acres were added to the plantations during the year, casuarina being planted in all cases. *South Arcot.*—Three hundred and seventy-two acres in the coast casuarina reserved forests of Cuddalore range were planted with casuarina. The percentage of failure was 5·6 against 6·3 in the previous year. Two hundred mango plants in the Sankarapuram North Bagyat tope and 100 in the Nabob's tope were planted; of the latter 64 died owing to excessive drought. *Trichinopoly.*—Fifty-five acres against 140 in the previous year were added to the existing area of 759 acres. The experimental planting of casuarina in Vengur Padugais was successful. *Madura.*—The growth of teak in Vannathiparai and Velankombai plantation was good. The blue gum trees in Gundanshola are thriving well. The pine plantation in Gundar valley extension was continued and 49,542 seedlings were raised and basketted. Plants of past years are coming up very well, their average height being 3 inches to 6 feet. The only slow growers are *Pinus panderosa*, *Pinus macrocarpa*, *Coulteri*. 146,245 seedlings were planted in blocks 9 feet apart. In the Upper Palni wattle plantation, the layers were planted rather too late in the season by the villagers and the work was not done to satisfaction.

Cultural Operations.

20. *North Vellore.*—*Hardwickia binata* sown in Varadalampet coupe 8 of Ambur range did not germinate for want of rain. Seeds of valuable species were dibbled in eight coupes of Arcot range and seeds of manure leaves species in Synagunta reserve; tne operations were unsuccessful for want of rain. *Hardwickia binata*, *Dalbergia latifolia* and *Mahagony* seeds sown in the new nursery of Amerdi germinated well. Seedlings of red sanders in Pichanur tope were in good condition. *South Vellore.*—There are no regular plantations; the results of sowing of seeds in felled coupes were bad owing to drought; 55 grafted mango plants were put down in the Andiappanur forest rest-house compound in 1904–1905; of these three have died and the rest are healthy and in bearing. Seed of manure leaf species sown in felled coupes and blanks was not successful. *South Arcot.*—A good deal of attention has been paid to these operations; 46 measures of different kinds of seeds of *Acacia arabica*, *Tamarindus indica*, *Eugenia jambolana* and *Melia indica* were sown broadcast and dibbled over on an area of 204 acres in reserved forests of Tindivanam range; most of the seedlings that came up have since died owing to the failure of the monsoon; 173 measures of cashew seeds were dibbled over an area of 31 acres in five reserved forests of Cuddalore range by forest subordinates free of cost; 91 acres in eight reserved forests of Tirukkōyilūr range were sown with seeds of various species free of cost; 1,048 measures of various species were sown over an area of 1,264 acres in thirteen felled coupes of Kallakurichi range on mounds in patches, furrows and under protection of thorny shrubs. The operation has been a decided success, especially where the seeds were dibbled under shade. *North Salem.*—Cuttings of certain species were put out in Sanniyasimalai and Nagaramalai reserves, the casualties were over 90 *per cent.* Two lbs. of *Swietenia Mahagony* seeds were sown in Sanniyasimalai nursery beds and seedlings of cypress and silver oak with some *Eucalyptus* were planted in the plantation. The fire of 16th March 1912 burnt the whole plantation except 5 acres around the nursery. Fifty basketted *Eucalyptus* seedlings were supplied to the jail. *South Salem.*—The operations consisted in dibbling in of seed in blanks, in felled coupes, and in planting cuttings and sowing seeds in pits in specially protected blocks, resulting in failure owing to the drought. The result of sowing sandal seeds in Nagur reserve was reported to be fair. Most of the failures, I believe, are owing to the seeds being put down too late in the season. Seed should not be put down later than June. *Trichinopoly.*—Ten pounds of *Sesbania aculeata* seed were sown in Kutti tope at a cost of Rs. 75 and 120 lbs. of seed were obtained. The ten seedlings of *Swietenia Mahagony* planted in Nengattupatti bungalow compound are thriving well. *Madura.*—Manure leaf

cultivation was discontinued and experiments conducted for the cultivation of *Sesbania aculeata* over a small area of 39 cents in Ayalur forest rest house compound and two acre sin Keela-Gudalur village limits. 172 Madras measures of seed was obtained at an average cost of As. 8 a measure, 112 measures were sent to the Deputy Director of Agriculture and the balance retained for departmental needs. *Tinnevelly.*—Seeds of several species were sown in 35 acres in several coupes and portion of this work was done by subordinates. The dibbling of seed in the felled coppice coupes at the foot or lower slopes of the ghât forests was successful to a certain extent. First sowing in June or July instead of waiting till October is being tried this season. Cuttings of banyan and Odina wodier did poorly in spite of the good rains of the north-east monsoon.

(*c*) *Operations for improvement of the Growing Stock.*

21. In North and South Vellore, North Salem and Tinnevelly creepers and climbers affecting standards in all the felled coupes were cut and removed by subordinates. Improvement fellings were undertaken in timber coupes in South Vellore and South Salem. In South Arcot, thinnings of casuarina by removal of dead, dying and damaged trees were carried out in Cuddalore Range. About a cart-load of Lantana was uprooted in Nabob's tope reserved forest of Tindivanam range. The operation of cutting back in burnt areas was undertaken in Sanniyasimalai.

(*d*) *Experiments.*

22. *Acacia auriculiformis.*—In North Vellore, 50 per cent. of the seed sown in the plantations of Kilminal, Ammundi, Tiruvallum, Virinjipuram and Chenur did not thrive owing, it is reported, to the sandy soil. In South Arcot, seeds sown in the Akshikadu nursery and coast casuarina plantations have given satisfactory results.

Acacia saligha and Eucalyptus.—In South Salem, seed of these species obtained from Australia was sown in January 1912 in a nursery opened in the District Forest Officer's compound; all Eucalyptus seedlings except three died a few days after basketting.

Camphor.—The Camphorwood seedlings in the Bryant Park reserve, Kodaikanal, are thriving.

Conifers.—Plants put out in Kodaikānal are also thriving.

Ceara rubber.—The 200 trees existing in South Arcot are in good condition and reproduction by seed is satisfactory.

Dalbergia sissoo.—In South Arcot, 20 lbs. of seed received from Lahore were sown in the coast reserved forests and 14,200 seedlings are now existing. Twenty trees in the Relief Camp tope and 27 in Salavady reserved forest are also doing well.

Grass.—The Superintendent, Remount Depot, was supplied with 1½ lbs. of Rhodes grass seeds. He reported as follows:—

"The 1½ lbs. were sown in a bed. The grass germinated well and with great rapidity, and all seed was carefully treasured and sown under various conditions, some on land that was practically barren, some under mango trees and some broadcast amongst other grasses. In every instance it has been the greatest success. One of the most remarkable features about it is, that in the middle of our hottest and driest weather, Rhodes grass was green and vigorous when there was nothing else green except the lucern garden. It is never watered artificially, so, it can be safely surmised that it possesses drought-resisting properties to a remarkable degree. Hay is excellent. Horses eat it greedily whether green or dry". The Superintendent has given bags of seed to other people and to Government farms. Rhodes grass has been found to be a most valuable fodder grass and its good qualities should be more generally known.

Hardwickia binata.—Some seed was obtained from Coimbatore and germinated well in Kuttalam range.

Mangrove (*Kandelia*).—The seed was obtained from South Canara and sown in Kottamadakki reserve of Tinnevelly district, but did not germinate.

Red sanders.—In the old plantation of Amerdi put down 40 years ago, 24 large and 12 small trees are doing well, but are damaged by monkeys. The existing plants in Salavady reserve are doing well owing to the special arrangements made for watering them, about 10 lbs. seeds were sown in Fort Saint David plantation and 573 seedlings germinated.

Sesbania aculeata.—In North Salem, 10 acres were sown with this seed but the operation failed for want of rain.

Swietinia Macrophylla.—Seventy-three trees in Ramapuram reserve are doing well and they have reached an average height of 22½ feet; there are also 35 trees in Takarai, 2 in Rengappanur and 3 in Veppur reserve on an average of 11 to 16 feet in height and they are thriving.

Swietenia mahagony.—In North Vellore, eight seedlings raised from seeds obtained from Kilminal plantation were put out in Chenur plantation and are doing well. In Madura, the mahagony planted in front of the bathing mantapam in the Alagar hill and those in the compound of Kanavoipatty rest-house are thriving.

5. Exploitation.

(a) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

23. In North Vellore, 77 acres in coupe 8 of Kilminal, Tiruvalam and Virinjipuram working circles were felled. In South Arcot, 26 acres in Akshikadu reserve and 243 acres in four Casuarina Coast Reserved Forests were clear felled departmentally.

(2) *Selection Fellings.*

24. In North Vellore, selection fellings were carried out in the bamboo coupes of Ambur and Gudiyāttam ranges and for the extraction of 1,747 cubic feet of timber from a coupe of Ambur range. In South Vellore, fellings were carried out in five sandalwood coupes and two timber coupes and in South Arcot in the bamboo coupes in Takarai hill and Takarai North working circles of Kallakurichi range. In North Salem, in addition to the extraction of dead sandalwood, other species were felled for the supply of agricultural and domestic implements to ryots and for the supply of timber to the Mattigiri Remount Depot. Fellings were done in 15 bamboo blocks in South Salem and in Trichinopoly in three bamboo coupes in Perambalūr range and 2 in Musiri range and 212 cubic feet of Vengai and other timber were removed for supply to the agricultural population. In Madura, 160 first-class trees and 40 second-class were selected in Melagudalur and Vannathiparai forests and sold for Rs. 9,066. In Tinnevelly, 50 trees in Vasudevanallur reserve, 100 trees in Nadugani working circle, and 50 trees near Kodamadi on the right bank of Servaiar below Kuttalam Kalaruvi were selected and sold to contractors. In this district further felling of such trees has been stopped by the Conservator, until a proper working plan has been prepared.

(3) *and* (4) *Improvement and Coppice Fellings.*

25. Thirty-two fuel coupes in North Vellore, 46 fuel coupes in South Vellore, 47 fuel coupes in South Arcot, 23 fuel coupes in North Salem and 35 in South Salem, 41 coupes in Trichinopoly, 46 fuel coupes and 9 tank-beds in Madura and coupes covering an area of 1,608 acres and 8 tank-bed coupes in Tinnevelly were worked as coppice with standards. Twenty-five bamboo coupes in South Vellore, 11 bamboo coupes in North Salem and 3 timber coupes in South Salem were treated under improvement fellings.

(5) *Unregulated Fellings.*

26. In South Arcot, North and South Salem unregulated fellings under the permit system were confined to unreserves. In Madura, 573 acres of unreserved lands were worked for supply of fuel to the Madura Mills and depot as the labour supply near the reserves was insufficient. Four thousand eight hundred and eighty-five bamboos and ittecalis in Tinnevelly and 150 bamboos in Rāmnād were cut and removed by contractors.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

27. Minor forest produce was generally leased out. But permits were issued for manure leaves and building stones in North and South Vellore, for road material, sand, gravel and stone in South Arcot and for manure leaves in North Salem. In Trichinopoly, Divi Divi pods collected departmentally in Udaiyārpālaiym range were sold for Rs. 85. The removal of avaram bark in the Trichinopoly district has hitherto been controlled and auctioned by the Forest Department. During the year the Collector notified that, from 1st July 1912, the bark in unreserves would be separated and sold on permits by the Land Revenue Officers, an arrangement which will probably result in a large fall of revenue without any benefit to the ryots. In Madura, thatching grass, stones and thorns were removed on permits.

(2) *Extraction of Fodder.*

28. In North and South Vellore and South Arcot, free removal of fodder and thatching grass was permitted as usual from all reserves; 644 head load tickets for grass were issued in Tiruvannamalai range for foreign cattle during the Karthigai festival. In North and South Salem and Trichinopoly, there was no free removal of grass from any of the reserves. In Madura, the removal of grass was on permits as in previous years. In Tinnevelly, grass was included in the minor produce leases.

(3) *Hay-making.*

29. In North Vellore, 7 tons and 1,740 lbs. of hay was collected and supplied to the Military Department. In South Vellore, about 4 tons of hay was collected in Tiruppattūr range at a cost of Rs. 15. In North Salem, 27 tons of hay was collected in Nagaramalai and Sanniyasimalai reserves at a cost of Rs. 74–4–0 and sold for Rs. 93–12–0 and 1 ton and 932 lbs. was collected from the Jowlagiri grass farm at a cost of Rs. 16–8–3 and sold to the Remount Depot, Mattigiri, for Rs. 28–5–2. In South Salem, 382 maunds of hay were prepared at a cost of Rs. 32–5–6 and 468 maunds sold for Rs. 22–2–0. In Trichinopoly, a small quantity of grass was cut from plantations and closed areas and sold for Rs. 5. There is no local demand for hay and the operation will not be conducted departmentally in future.

(4) *Grazing.*

30. The revenue derived from grazing was Rs. 1,93,431 against Rs. 1,94,281 in the previous year, a fall of ·44 per cent. The decrease chiefly occurred in Vellore and Madura and was due in the case of the latter district to closure of reserves to goats and of Waguthumalai reserve entirely to grazing on account of persistent wilful firing of the forests.

(*b*) Agency of Exploitation.

(i) *Departmental Agency.*

31. Departmental agency continued to be the chief agency for working timber and fuel in almost all districts up to 31st March 1912. The total quantity of timber and fuel, the number of bamboos and the value of minor produce extracted departmentally were respectively 25·3, 1 and ·25 per cent. of the total outturn of each through all agencies. Transport was almost entirely done by country carts.

Timber+11,184 *cubic feet* due chiefly to the extraction of 13,677 cubic feet in Madura against 3,922 cubic feet in the previous year.

Fuel—618,906 *cubic feet* due to the introduction of contract system by leasing out fuel coupes in some districts especially in the latter part of the year.

Bamboos—83,855 due to the sale of bamboo blocks in North Vellore, North Salem and Trichinopoly which were worked departmentally during the previous year.

Minor produce+ *Rupees* 142.—The increase is small.

(ii) *By purchasers.*

32. *Timber*+302,144 *cubic feet.*—Fuel + 2,047,598 *cubic feet.*—*Bamboos* + 4,581,580.—The increase in timber was due to a large amount of revenue on trees on darkhast lands and that in fuel and bamboos was due to the introduction of contract system by leasing out fuel and bamboo coupes standing.

Minor produce+Rs. 17,459.—The increase occurred chiefly in Trichinopoly and was due to better crop and keener competition.

(iii) *Rights and privileges.*

33. These are allowed for grazing and tree tapping in South Vellore, South Arcot and Tinnevelly districts, the value of produce removed under grazing is estimated to be Rs. 273 and the tapping fees amount to Rs. 725 against Rs. 247 and Rs. 249 respectively in the previous year.

(iv) *Free grants.*

34. The estimated value of free grants was Rs. 5,341 against Rs. 4,118 in the previous year. The increase was due to the free grant of forest produce worth about Rs. 2,000 for rebuilding the houses and huts destroyed by fire in Perambalūr, Trichinopoly district, and to the grant of 2,538 cubic feet of timber to the Public Works Department for rebuilding groins destroyed by flood in the Cauvery. Free grazing of cattle in South Vellore was valued at Rs. 467.

35. The following abstract shows the quantity and value of produce removed by right holders, free grantees, etc., as required in Board's Proceedings Forest No. 185, dated 26th July 1911:—

—	Timber.		Fuel.		Bamboos.		Grass and grazing.	Other minor produce.	Total value.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
Right holders	..	..	20	1	..	..	..	998	999
Free grantees	50,672	3,986	1,852	71	24,970	753	467	64	5,341
Grants at reduced rates ..	..	..	..	..	..	..	1,433	..	1,433
Total ..	50,672	3,986	1,872	72	24,970	753	1,900	1,062	7,773

(c) OUTTURN AND SOURCES OF FOREST PRODUCE.

36. The following statement compares the total outturn of timber and other produce collected by different Agencies from all classes of forests during 1910-1911 and 1911-1912:—

Agency of exploitation.	Timber including sandalwood in cubic feet.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce including grass and grazing in Rupees.	
	1910-1911.	1911-1912.	1910-1911.	1911-1912.	1910-1911.	1911-1912.	1910-1911.	1911-1912.
1	2	3	4	5	6	7	8	9
By Government Agency.	32,112	43,296	3,475,355	2,856,449	283,159	199,304	924	1,066
By purchasers ..	749,083	1,051,227	5,416,362	7,463,960	16,018,881	20,600,461	407,965	425,424
By right holders ..	..	..	2,500	20	..	..	642	2,431
By free grantees ..	40,666	50,672	2,561	1,852	23,425	24,970	41	531
Total ..	821,861	1,145,195	8,896,778	10,322,281	16,325,465	20,824,735	409,572	429,452

The results show an increase under all the heads. The variations have already been explained. The rates for grazing fees levied in several districts are shown in Form No. 74. The number of animals licensed on payment was 1,117,489 against 1,231,555 in the previous year.

CHAPTER III.—FINANCIAL RESULTS.

37. The revenue and expenditure of the year compared with that of the previous year and with the average of the five preceding years is given below :—

	1911-12.	1910-11.	Average of preceding five years.
	RS.	RS.	RS.
Revenue	13,81,690	13,55,479	12,19,180
A. Conservancy and Works including refunds.	4,23,562	4,55,838	4,26,034
B. Establishment	3,50,976	3,14,006	2,70,361
Total Expenditure ..	7,74,538	7,69,844	6,96,395
Surplus	6,07,152	5,85,635	5,22,785

Compared with last year, the revenue and expenditure show an increase of Rs. 26,211 and Rs. 4,694, respectively. 51·02 of the whole revenue was derived from major produce, 39·63 per cent. from minor produce and 9·35 per cent. from miscellaneous sources. Of the expenditure, 36·5 per cent. was devoted to the *upkeep* and improvement of the forests, 25·9 per cent. to exploitation and 37·6 per cent. to miscellaneous items. The proportion of net to gross revenue increased from 43·2 per cent. to 43·9 per cent. The amount of revenue outstanding at the close of the year was Rs. 1,99,924 of which Rs. 22,621 fell due within the year. Rs. 16,017 has since been collected. The estimated value of timber and other produce at the sale depots at the close of the year was Rs. 41,144 against Rs. 53,860 at the commencement of the year showing a difference of Rs. 12,716 against the year.

The chief variations between the actuals of the year and those of the previous year are explained below :—

RECEIPTS.

(i) *By Departmental Agency.*

	RS.		RS.
Timber	— 6,270	*Bamboos*	— 2,893
Fuel	— 86,430		

Due chiefly to the introduction of the contract system by leasing out fuel coupes and to the non-supply of fuel to the railway.

Sandalwood + 27,184.—Due to the larger quantity of sandalwood extracted, and better prices fetched at the auction sales and to the realization of revenue pertaining to the previous year.

Minor produce—1,278.—The decrease is spread over all districts.

(ii) *By Purcharers.*

	RS.		RS.
Timber	+ 9,071	*Bamboos*	+ 9,828
Fuel	+ 66,421		

The increase under timber was due to the large amount realized by sale of timber trees in Cumbum, Madura district, and to the larger amounts realized by Revenue officials on valuation of trees on durkhast lands in several districts. The increase under fuel and bamboos was cheifly due to the introduction of the contract system in several districts and to the large amount realized by the sale of tank-bed trees in Palamedu range, Madura district.

Grazing—14,090.—Due to reasons already furnished in paragraph 30 *supra*.

Minor produce+22,326—was due to keen competition resulting in better prices realized in several districts.

(iii) *Miscellanous (including confiscated drift and waif-wood).*

Revenue+2342. Due to the levy of enhanced rate of compounding fees in closed areas in Trichinopoly, to the capture and sale of semi-wild cattle in the Cauvery South Bank Plantations and to the sale of departmental carts and bullocks and old tents in North Salem.

EXPENDITURE.

A. Conservancy and Works.

The expenditure fell short of the previous year by Rs. 32,276 which was due chiefly to cessation of departmental operations.

B. Establishment.

The increase of Rs. 36,970 was due chiefly to (*a*) increments to Imperial officers according to the time scale of pay, (*b*) introduction of time-scale of pay for Provincial officers, with retrospective effect, (*c*) formation of a new circle and division of North Arcot district into two Forest charges (*d*) reorganization of Range clerical establishment, formation of Ramnad district as a separate Forest charge and the opening of a Vernacular Training School in the circle, (*e*) the posting of an Assistant Conservator in North Salem and Extra Assistant Conservators in the districts of South Vellore and Trichinopoly for short periods during the year and (*f*) the grant of the Royal bonus.

CHAPTER IV.—ADMINISTRATION.

38. The circle was formed on 11th October 1911 and Mr. J. S. Battie has been in charge.

New district forest charges.—From the 1st December 1911, North Arcot district was divided into two forest charges, Tirupattur, Tiruvannāmalai, Chengam and Polur ranges forming the major charge and Gudiyāttam, Ambur and Arcot ranges, a minor charge.

New Ranges.—Tiruvannāmalai and Hosur Ranges in South Vellore and North Salem were split up each into two ranges, the new ranges being Chengam and Anchetti. It has been found very difficult to keep the ranges properly manned owing to a number of rangers being absent for various reasons.

Establishment.—Owing to the transfer of the working of coupes to contractors, there has been a reduction in the scale of temporary establishment.

39. *Work of Superior Officers—By Mr. N. E. Marjoribanks, North Vellore.*—"Both Messrs. Woutersz and Hearsey have worked hard to clear away the arrears of correspondence that had accumulated in the District Forest office before the division was formed and both officers were constantly on tour. Mr. Hearsey in particular was indefatigable in his inspections during the hot weather and this is sure to have an excellent effect on the subordinate staff." *South Vellore.*—"Mr. Arbuthnot did a great deal of inspection work, but did not pay sufficient attention to his office work with the result that there are heavy arrears in both the divisions of the district. Mr. Woutersz has done a great deal to reduce these arrears." *South Arcot—By Mr. M. Aziz-ud-din Sahib.*—"This officer (M.R.Ry. K. R. Venkataramana Aiyar) gave me entire satisfaction by his upright and energetic discharge of his duties. He was sent on special duty to Delhi in connection with Their Majesties" Coronation and on his return has been appointed as professor in the Forest College at Coimbatore. Much of the success of the Forest Administration in the district is due to M. R. Ry. K. R. Venkataramana Aiyar Avargal. M. R. Ry. K. Gajaraja Mudaliyar Avargal worked for a short time and did fairly well. Mr. A. B. Myers has just joined the district." *Salem—By Mr. J. A. Bedford.—North* "I have chiefly come across Mr. Cowley Brown's work, so far as North Salem is concerned, and have been most favourably impressed with his zeal and ability." *South.*—"The year's results seem to me to be creditable to the officers concerned. I mostly came across Mr. Maduranayakam Pillay's work and was favourably impressed with his zeal and thoroughness." *Trichinopoly—By Mr. J. C. Molony.*—"During the short period that I have

been in the district, I have been much struck by the energy and enthusiasm that Mr. Thornton brings to bear on his work." *Tanjore—By Mr. R.B. Wood.*—"I have had no opportunity of really seeing anything of Mr. Thornton's work yet." *Tinnevelly—By Mr. W. Francis.*—"Mr Latham's work continued to be excellent. Mr. Peake has already travelled with characteristic energy over the more important parts of his charge, but office work in the circumstances already explained, will need continued attention."

The Conservator endorses these opinions. In Madura the administration of the department under Mr. H. B. Bryant was, as usual, successful.

40. *Executive establishment.*—Some good work has been turned out by rangers, but on the whole the work and conduct of the executive staff is still unsatisfactory. In North Vellore one ranger was temporarily reduced and one deputy ranger was dismissed. In South Vellore one deputy ranger was reverted to his permanent appointment for inefficiency. In South Arcot two rangers were permanently reduced from V to VI grade. In North Salem one ranger was removed from service, one deputy ranger resigned and another was suspended for one year. In South Salem one deputy ranger resigned. In Trichinopoly one deputy ranger was removed. In Madura one ranger was suspended and has since been dismissed from service. In Tinnevelly one deputy ranger was suspended for ten months.

41. *Protective establishment.*—In Tinnevelly one forester was prosecuted for falsification of accounts; he was convicted and sentenced to a fine of Rs. 200. Besides several reductions five foresters and 143 forest guards and watchers were dismissed or removed from service. Three foresters and 162 forest guards and watchers were suspended. This shows a very unsatisfactory state of affairs.

42. *Ministerial establishment.*—Work was fairly satisfactory in all offices except North and South Vellore, Trichinopoly and Tinnevelly. Since the formation of the new North Arcot district in April 1911, there were several changes in the office staff resulting in much confusion and before anything could be done the district was again split up into two forest charges in December 1911. This again necessitated several changes among the clerks and there was a want of supervision especially in South Vellore. There is still great difficulty in the recruitment of qualified and suitable candidates.

43. *Health of establishment and Casualties.*—The health of the establishment was fair in all districts except on the Pachamalais in the Trichinopoly district. In South Vellore, two watchers were murdered in the execution of their duties. The Police have reported one case as undetected and the result of the other is not known. One deputy ranger, two range clerks, three guards and a watcher died.

44. *Relations between Revenue and Forest Officers*—continued to be cordial throughout the circle. The reports of North and South Salem, Trichinopoly and Tinnevelly do not furnish information regarding attendance at jamabandy, in other districts Range Officers attended and no complaints were brought to notice nor did any question of importance on Forest matters come up for consideration.

45. *Service books*—are reported to have been maintained and verified in all the districts.

46. *Conservator's inspections.*—All the districts were visited and all District Forest offices inspected, except North Vellore which was newly formed during the year.

47. *Touring of District Forest Officers.*—All the District Forest officers except North Vellore have spent more than six months in camp. The North Vellore division was formed on 1st December 1911: 87 days were spent on tour by Mr. C. J. Woutersz and 81 days by Mr. T. N. Hearsey.

48. *Inspection of Range offices.*—All the Range Offices were inspected except two in North Vellore. Sale depots were also inspected.

49. *Audit of Accounts of District Forest Offices.*—The accounts of all District Forest Offices except North Vellore were audited by the Auditors of the Accountant-General's Office and the results were reported to be satisfactory.

50. *Imperial Forest College, Dehra Dun.*—One probationary ranger and one deputy ranger were sent back from the college as they were unable to follow the course. A probationary ranger and one deputy ranger returned with Ranger's certificate and two rangers underwent the third year's course.

51. *Madras Forest College, Coimbatore.*—Two Permanent Rangers, two Probationary rangers and four permanent deputy rangers were deputed for training.

52. *Venacular Training School.*—The sanction of Government to open a School for this circle was obtained and the first session was held in South Salem. Twenty-nine of the 30 students admitted went through the course successfully, 14 in the first class, 12 in the second class and three in the third class. One student resigned as he was unable to do the work. The Instructors did very good work.

CHAPTER V.—GENERAL.

53. *Realization of revenue from the usufruct of toddy-yielding trees.*—The revenue realized is Rs. 11,262 against Rs. 12,873 in the previous year. The decrease of Rs. 1,611 is spread over all the districts except South Salem. In South Vellore and North and South Salem the fixed fee system was in force and the usufruct of such of the trees as were not taken up under the fixed fee system in North and South Salem were leased out as usual.

54. *Measures adopted to encourage the growth of manure leaf yielding trees and shrubs.*—Seed of manure leaf yielding species sown in Sainigunta reserve, in North Vellore and in Kappalur reserve in South Vellore, was a failure owing to want of rains. Seed sown broadcast in blank areas in Tiruvannamalai and Chengam ranges were not successful. Some ryots in Gudiyattam are reported to have planted Cassia and other trees on the margin of their lands for manure leaf. With a view to raise a crop of seeds for free distribution to ryots in South Arcot, 52 measures of *Sesbania aculeata* seed were obtained from the Agricultural Department in November 1911 and will be sown in prepared soil during the next rains. Seed of manure leaf yielding species was sown over an area of 1,303 acres in Kallakurichi, Tirukoilur and Cuddalore ranges; the operation in Kallakurichi range was fairly successful, while in the other two ranges the operations proved a failure owing to the failure of the monsoon. In North Salem an area of 10 acres was sown with seeds of *Sesbania aculeata* in each of the Kurumbapatti and Karuvattuparai reserves, but the operations failed for want of rain. In Trichinopoly an experiment was made to grow *Sesbania aculeata* in the Padugais; the result though on a small scale was successful, so the operation will be extended. The experiments conducted in Madura district for the cultivation of *Sesbania aculeata* for production of seed are already referred to in paragraph 20 *supra*. In Tinnevelly no collection of seed by the department was made, there being very little growth of the plants in the forests; the seed of *Tephrosia purpurea* is available to a very large extent in patta fields near the ghats. No grants on favourable terms were made for the growth of manure shrubs in any of the districts; one application by a ryot of Vellakal in Tinnevelly is stated to be pending disposal with the Divisional Officer. From the experiments carried out it is quite clear that it is useless to try and grow plants like *Tephrosia purpurea* and *Sesbania aculeata* in the ordinary scrub jungle reserves of the plains. The only areas suitable for this purpose in the hands of the Forest Department, are the padugais along the Cauvery river.

55. *Grant of cowles for the formation of Casuarina plantations in sandy areas.*—So far as reports have been received from Divisional Officers, ryots have not applied for such concessions. Ryots in South Arcot have already planted Casuarina over large areas on their private lands.

56. *Cultivation in reserved forests.*—In South Vellore, North and South Salem and Trichinopoly leases of previous years were renewed.

57. *Improvement of water-supply in State forests.*—In South Arcot district, three tanks in reserves in the Kallakurichi range, one in Tirukoilur and one in Tindivanam range were repaired at a cost of Rs. 889.

58. *Supply of forest produce to meet the wants of the people.*—In North and South Vellore, permits were issued for manure leaves in all ranges, free removal of grass was allowed for *bonâ fide* domestic purposes and timber, fuel and agricutural

implements were sold in most depots. In South Arcot the wants of the people were generally met from the coupes worked by contractors. In North Salem, permits were issued for unreserved lands in the case of villages far removed from reserved areas. Ten coupes were sold to contractors up to March 1912, two coupes worked departmentally and 15 coupes leased out on contract in the latter part of the year. Babul pods were no longer leased out but were left for villagers in all districts. In South Salem, seven village depots supplied the wants of the agricultural population. In Trichinopoly, permits were issued for minor produce at stations located at convenient centres; in regard to the supply of major produce coupes were sold to contractors, or fuel was sold at the edge of forests. In Madura, the demand was met by opening coupes in the neighbourhood. In Tinnevelly, timber for agricultural implements was granted at seigniorage rates from babul trees in tank beds as usual. Coupe contractors supplied local demand by keeping depots in various villages near the forest and issued headload permits at fixed rates for gathering small firewood in the coupes and also cartload permits for firewood and small timber.

In future most of the coupes will be worked by contractors, but no difficulty is anticipated in meeting the demand of the people.

59. *Sale of fuel at the edge of the forests.*—In Madura, all the coupes except six were sold standing, the contractors were bound by their agreements to sell produce at fixed rates to local applicants. In Trichinopoly, 40 coupes were leased to contractors who were bound by agreement to sell the produce at the edge of the forests at fixed prices. In North Salem, fifteen coupes were leased out on lump-sum contracts during the latter part of the year. In South Arcot, 7,900 tons of billet wood, 889 tons of roots and 4,864 headloads of twigs in the Coast Casuarina coupes and Akshikadu reserve were felled departmentally, stacked and sold by auction in the coupe.

60. *Arrangements made for the transfer of sale depots to private agency.*—All Government sale depots were closed in the latter part of the year, and all coupes for 1912–13 were, as far as possible sold standing.

61. *Free removal of grass.*—This has already been referred to in paragraph 28 *supra.*

62. *Hill tribes.*—In North and South Vellore, the Malayalees living in the Javadi hills are allowed grazing at half rates, in return they are expected to prevent forest fires and generally assist the forest subordinates in the protection of the forests. The District reports do not mention with what results this arrangement has worked. In Trichinopoly, the Malayalees on the Pachamalais and Kollimalais were given certain concessions in respect of forest produce, and they have assisted in protecting the forests from fire; they were also entertained as forest guards and watchers whenever they came forward for service. In Tinnevelly, the few Pallayars in the Kadayanalur hills who are reported to be of no use did no harm during the year. The Kanis whose only settlement is near Kannikatti in the Peyar valley where their existence is detrimental to the preservation of the protective forests, have quite ruined the three hundred and odd acres given them for "kumari" a few years ago and they have agitated for fresh forests. The Conservator at his inspection recommended that an attempt should be made to get them to work for the department. A scheme for planting teak in the forests through their agency has been considered. Ten acres were alloted for this purpose at the end of the year, and the result will be carefully noted. It promises to be a very long time before they will be got to do regular work or take service as watchers and fire patrols.

63. *Prospecting license.*—No license was granted during the year.

Rules under the forest act.

64. *Timber and Sandalwood transit rules.*—The rules worked satisfactorily in North and South Salem, Madura and parts of Trichinopoly. In its Proceedings Forest No. 537 Mis., dated 29th March 1912, the Board has called for a further report from Madura in a year's time. The revised rules for the transit of timber and sandalwood for the new North Arcot district were submitted to the Board in February 1912, and the matter of extending the sandalwood transit rules in force in the Namakkal range, to the Pachamalai Hills is under correspondence.

65. *Rules under section* 26 *of the Forest Act.*—In Madura, it is doubted whether the rules under section 26 of the Act are fully understood by the people. In other districts the rules worked satisfactorily. The Collector's power to notify reserved lands under section 26 was withdrawn under Board's Proceedings Forest No. 80, dated 4th May 1912.

66. *Rules regarding levy of composition fees.*—This was already referred to in paragraph 10 *supra.* The issue of free grazing permits with the compounding fee was not done during the year in South Vellore.

67. *Arrangement made in holding the villagers adjacent to particular forests responsible for protection of those forests by dividing the village and bloc s of forests concerned.*—In South Arcot, the results of the warning conveyed to the villagers adjoining the reserved forests were not perceptible. In North Salem, endeavours have been made to introduce the system, and notifications published in regard to certain reserves of Hosur, Dharmapuri and Krishnagiri ranges. In Madura, the system has not yet been elaborated, and it is proposed to take up the matter after Board's final orders on the grazing possibility of reserves are received. In the Conservator's opinion it is not likely villagers will assist in the protection of the forests unless they have a personal interest in doing so. The correct policy to adopt therefore is that of permitting those in the vicinity of the forests to reap some advantage in cheap or free produce.

Live and dead stock.

68. *Live stock.*—The departmental operations having been replaced by private agency, the live stock in South Vellore, North and South Salem and Madura was sold in auction during the year. The bullocks in North Vellore which are employed for watering purposes in Chenur plantation are in good health.

69. *Inventory of valuable stock.*—Stock registers are reported to have been maintained in all districts and verified at inspections.

70. *Rainguages.*—In Madura, there are no rainguages. In all other districts readings are reported to have been properly recorded. In North Vellore at one station the rainguage bottles were stolen and replaced. In South Vellore, the bottles were broken in two stations.

71. *Specimens.*—Specimens of *Diospyros foliarlosa*; timber, leaves and fruits; *Diospyros affinis*; timber and leaves were sent by the District Forest officer, Rāmnād, to the Gass Forest Museum, Coimbatore. The *albizzia* referred to last year was declared to be a new species and was to be named after Mr. Latham.

Suits.

72. N. Subbarama Aiyar, late Depot Keeper, Perambalur and Tanjore, instituted a civil suit to recover Rs. 171, being the amount recovered from his security deposit and adjusted in 1909 towards the large deficits in his depot. The Government Pleader, Tanjore, furnished draft answers and memorandum of *evidence* and the papers are now with the Collector. The Chinnakadu Hill suit in Ambasamudram Range, Tinnevelly district, is under enquiry in the District Munsif's Court, Ambasamudram.

Office of the Conservator of Forests,
Southern Circle, Trichinopoly,
Dated 27th September 1912.

J. S. BATTIE,
Conservator of Forests, Southern Circle.

INDEX.

FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY,

WESTERN CIRCLE, 1911-1912.

Chapter.	Subject.	Paras.
I	Constitution of State forests—	
	1. Alteration in area	1
	2. Forest settlement	2
	3. Demarcation	3
	4. Forest surveys	4 & 5
II	Management of State forests—	
	1. Regulation of management—	
	(a) Preparation and control of regular working-plans ...	6
	(b) Preliminary working-plans reports	7
	(c) Annual plan of operations	8
	2. Communications and buildings—	
	(a) Roads and bridges	9
	(b) Buildings	10
	(c) Miscellaneous works	11
	3. Protection of forests—	
	(a) General protection	12 to 14
	(b) Protection from fire	15 to 17
	(c) Protection from cattle	18
	(d) Protection against injuries from natural causes ...	19
	4. Sylviculture—	
	(a) Natural reproduction	20
	(b) Artificial reproduction	21
	(c) Operations for improvement of the growing stock ...	22
	(d) Experiments	23 & 24
	5. Exploitation—	
	(a) System of management—	
	(i) Major forest produce	25 to 28
	(ii) Minor forest produce	29 to 32
	(b) Agency of exploitation—	
	(i) Departmental agency	33 & 34
	(ii) By Purchasers	35
	(iii) Right-holders and (iv) Free-grants	36
	(c) Outturn and sources of forest produce	37
III	Financial results	38
IV	Administration	39 to 53
V	General	54 to 64
	Appendices A to F and Forms Nos. 65 to 85.	

FOREST ADMINISTRATION REPORT
OF THE WESTERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1912.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

Reserved forests.—The area of reserved forests increased from 3,771 to 3,774 square miles. Two square miles in *South Canara* and a total extent of ·8 square mile in *North Malabar*, the *Nilgiris* and *North Coimbatore* were transferred from reserved lands. Five small areas aggregating 675 acres were disafforested in *South Canara, North Malabar*, the *Nilgiris* and *North* and *Central Coimbatore.* Survey corrections and recomputation of area resulted in a small increase of 238 acres.

Reserved lands.—The only important change was the exclusion of 10 square miles from the *South Canara* list. As reported last year, practically the whole of the area shown as reserved lands in *South Canara* exists only on paper, and more progress in correction of the paper figure should have been made during the year. There were 541 square miles of reserved lands in the circle at the end of the year against 554 at its commencement.

2. Forest Settlement.

2. One block in each of *South Canara*, *North Malabar* and the *Nilgiris* and two blocks in *North Coimbatore* were finally settled during the year. Eight small additions which are enclosures in reserved forests aggregating 292 acres were brought under settlement. The actual settlement of seven out of the seventeen blocks shown as balance under settlement at the close of the year, was completed. The oldest of the pending blocks is Madeswaranmalai in *Kollegal* and it was pending correction of the cadastral survey of three enclosures and the revision of boundary description necessitated by the verification made by the Special Deputy Collector. The special officer verified the boundaries of all reserved forests in *Kollegal* and prepared revised boundary descriptions which are being scrutinized; this verification is reported to have cost Rs. 3,959.

3. Demarcation.

3. Seventy six miles of boundaries were newly demarcated and 209 miles of old boundaries repaired at a cost of Rs. 1,406 and Rs. 1,697 respectively. One mile in *South Malabar* was demarcated and 1,140 miles of old boundaries in all districts repaired or cleared free of cost by subordinates. In *North* and *South Malabar*, 140 and 62 miles respectively were cleared for the purpose of fire-protection and the cost was debited to A-VIII (*f*). Five miles of the existing boundaries in *Kollegal* were demarcated substantially with stone pillars at a cost of Rs. 461; this is the most expensive demarcation yet carried out.

4. Forest Surveys.

(*a*) *By the Survey of India Party.*

4. No. VII party continued the survey of reserved forests aggregating 77 square miles on the 2-inch scale in *South Canara* and No. VIII Party resurveyed on the same scale 9 square miles of Anamalai reserved forest in *South Coimbatore*; the survey of all forests in the former district is complete, but the maps of some have not yet been published.

(*b*) *By Departmental Survey.*

5. The timber and fuel coupes of the year in all districts except the *Nilgiris*, 3 miles of the boundary of Doddasampagai reserved forest, two roads and the trace for one road in *Kollegal* were surveyed departmentally. In the *Nilgiris* the exotic plantations (area not reported) were surveyed and mapped.

The reference maps referred to in section 80 of the Forest Code and fire-protection maps are reported to have been maintained in *Kollegal* and *North Coimbatore*; no reference to these maps is made in the other districts. A consolidated map of the teak plantations in *South Malabar* was prepared and printed at the Madras Survey Office.

The Forest Map Officer prepared the special reference maps of the *Nilgiris* and *South Malabar* and part of the map of *North Malabar*.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(*a*) *Preparation and Control of Regular Working Plans.*

6. *Preparation.*—No new working plans were either drawn up or sanctioned during the year. In *North Malabar*, some statistics were collected for revising the working plans for Begur and Chedleth ranges and for preparing a plan for Kanoth range. Revised working plans for Beypore tope in *South Malabar* and for the forests of Erode range in *Central Coimbatore* were prepared but had not been sanctioned by the end of the year. Enumeration survey was carried out and statistics collected for the preparation of plans for the Eucalyptus plantations in the *Nilgiris* and the Gundal valley in *Kollegal* and for the revision of sandalwood working plans in *North Coimbatore*. The revision of the working plan for the forests of Mēttupālaiyam range in *Central Coimbatore* was in progress.

Control.—In *South Canara*, Abbigudde reserved forest was transferred from the manure leaf to the fuel working circle for working on a thirty years' rotation; light improvement fellings and creeper cutting were prescribed for a portion of Kidu reserved forest. The prescribed number of trees in the timber working circle in Uppinangādi range was not felled as the previous years' stock remained undisposed of. Coupes XIX of Begur and II of Chedleth in *North Malabar* were not worked as the felling in previous years' coupes was not completed. The area for annual planting in Karimpoya reserve in *South Malabar* was reduced by 50 per cent. In *Kollegal* the felling in Araipalayam fuel and Bailur sandalwood working circles was behind hand by two and three years respectively owing to non-completion of felling in previous coupes and to removal of spiked trees. The second rotation of Madeswaranmalai sandalwood working circle was commenced and coupe I felled. The working plans for Talamalai in *North Coimbatore* and for Bolampatti (except Chinnar working circle) and Mēttupālaiyam ranges in *Central Coimbatore* were as usual unworkable. Sandalwood was extracted from coupe VII of Gutialattur in the former district instead of from coupe I owing to general dislocation caused by operations to remove spiked trees. The Sholakarai and Walayar working plan in *Central Coimbatore* was followed except as regards bamboos which flowered and were sold over the whole area in 1910–11. In *South Coimbatore* Thalinji working plan was kept in abeyance pending inspection by the Conservator, and fellings in Varigali valley were stopped pending the result of negotiations with the Cochin Durbar.

(*b*) *Preliminary Working Plans Reports.*

7. A simple scheme for extracting *Shorea talura* in Talamalai reserved forest in *North Coimbatore* was drawn up; seven fuel coupes, nine bamboo coupes and two sandal coupes were worked under working schemes on which working plans will be based. The construction of roads and buildings prescribed in the Mudumalai plan in the *Nilgiris* was delayed for want of labour and establishment.

(*c*) *Annual Plan of Operations.*

8. The important deviations apart from those mentioned in paragraph 6 were:—
South Canara.—Fuel felled in Sural Adivi was not sold in the forest but was transported to Mangalore. Bakudihola coupe was felled departmentally as contractors

cannot yet manage transport. Some minor buildings were not constructed, as funds were required for more urgent works. *Malabar.*—The following works which were not provided for were carried out as they were found necessary: —*North.*—Commencement of quarters for Deputy Rangers at Tirunelli and Pavaguddai, reconstruction of Brahmagiri bungalow and trenching district boundary between Brahmagiri and Kottayam; *South.*— Construction of a serambi at Walghat and metalling a portion of the Nedungayam-Mundakaduvu road. The *Nilgiris.*—Construction of a rest-house at Bikkatti and subordinates' quarters at Melur were abandoned in favour of more important works. The plantation roads in Coonoor and Ootacamund ranges were improved. *Kollegal.*—No fuel was carted departmentally as it was sold in the forests. Bamboos in Araipalayam and Gundal working circles having flowered were extracted. The following works were put off for want of funds and establishment:—Singanallore-Lingankarai and Hanur-Cowdally roads, the upper portion of the Gundal valley road, depot building at Kollegal, subordinates' quarters, completion of Gobinatham rest-house and demarcation of Cowdally reserved forest. *North Coimbatore.*—A coupe at Bargur for felling miscellaneous timber was not opened owing to delay on the part of the Range Officer. Three roads and two rest-houses were not constructed for want of funds and the buildings at Andiyur were not commenced owing to abnormal delay in acquiring the site required. Demarcation of three forests not provided for was commenced. *Central Coimbatore.*—The full quantity of hay was not collected partly for want of funds and partly to failure of monsoon. Improvement to roads in the Bhavāni valley, construction of a road to open Chenat Nair reserve and of a road over Muthikolam pass were deferred, the first two in favour of more urgent works and the third owing to non-completion of trace. The proposed rest-house near Eliwal was postponed as funds were required for the buildings in the Attapadi valley. Eradication of prickly-pear was deferred until the result of previous years' expensive operations can be valued, and the scheme of fire-protection for the Attapadi forests was not introduced pending further inspection. *South Coimbatore.*—Gudaravalli coupe IV was not worked, coupe III not being completed; fuel was not transported to Udumalpet, as it was sold in the forests. Continuation of Ulandi road and of subordinates' quarters and mahouts' lines at Ulandi were deferred pending the result of negotiations with Cochin. Thalinji road and a rest-house and a dam at Thalinji were given up, the Thalinji working plan being unworkable. Subordinates' lines at Sethumadai and outhouses at Kombu were held over for want of funds. Road to Manthorai rest-house was not constructed as a better and shorter route was traced. Aliar road was pending acquisition of land. Kallapuram-Elayamuthur road was improved to facilitate transport of fuel from Amravati coupes, a shed for storing spokes and felloes at Pollachi was constructed and the rest-house at Manthorai and Tekadi buildings were completed although these works were not provided for.

2. Communications and Buildings.

(*a*) *Roads and Bridges.*

9. The expenditure on new works amounted to Rs. 18,885 and on repairs to Rs. 43,556 as compared with Rs. 8,273 and Rs. 19,847 respectively, in the previous year. Nine miles of roads for transport of fuel were constructed in *South Canara.* In *North Malabar* three of the bridges on the Kottiyur road were built. In the *Nilgiris* the bridle-path in Moyar reserve was extended, the total length being 7 miles and 5 furlongs, and the plantation roads were thoroughly repaired and much improved at a cost of Rs. 16,000. In *Kollegal,* Araipalayam and Ponnachi-Chengadi roads were completed and the former was also extended by 2 miles. Chengadi-Hosur road was in progress, 4 miles having been laid out during the year. In *North Coimbatore* two roads (length 9 miles) were constructed and 21 miles of new road traced. The cost of maintaining 115 miles of existing roads in *Kollegal* and *North Coimbatore* amounted to Rs. 11,000. In *Central Coimbatore* the Chinnar-Anaiarkandi road was repaired and 6 miles of bridle-path were traced. In *South Coimbatore* the Anamalai-Sethumadai road handed over by the Local Fund Department in a deplorable state was renovated at a cost of Rs. 2,244.

Tramway.—The line for the proposed Wynaad tramway was resurveyed and realigned and the estimate and plans were revised by an Engineer at a cost of Rs. 800. In *South Coimbatore,* a branch tram-line was laid out at a cost of Rs. 124.

The work of the tramway showed a net profit of Rs. 1,789 against Rs. 3,056 in the previous year. The working charge rose from Rs. 1-7-2 to Rs. 1-11-7 and the increase was due partly to Government bullocks being unfit for hard work on account of old age.

(b) Buildings.

10. Rs. 38,341 were spent on new buildings and Rs. 11,439 on repairs to existing buildings against Rs. 25,884 and Rs. 10,396 in the previous year. The principal new works of the year were:—*Range offices*—One in *South Coimbatore*; the Range Office at Ootacamund was converted into a combined office and quarters through the agency of the Public Works Department. *Range quarters.*—One in each of *South Canara*, *North Malabar* and *South Coimbatore*, *Deputy Rangers' quarters* at Tirunelli and Pavagaddai in *North Malabar* were commenced. *Subordinates' lines.* One in each of the *Nilgiris* and *Kollegal* and two in *Central Coimbatore*. *Inspection, Tannah and store sheds.*—Four inspection sheds in the Attapadi valley, one tannah shed in *North Coimbatore*, one guard's shed in *Central Coimbatore*, one cordage shed in *South Malabar* and one store-shed in *South Coimbatore.*—*Elephant kraal.*—One in the *Nilgiris*. *Serambis.*—Three in *South Malabar*, of which one was incomplete; one at Ulandi in *South Coimbatore* was commenced. *Rest-houses.*—Three in *North Coimbatore*. Brahmagiri bungalow in *North Malabar* was reconstructed. *Rest-houses* at Gundal and Hanur in *Kollegal* and and Manthorai and Tekadi in *South Coimbatore* were completed. One at Bandalli in *Kollegal* was commenced and another at Muthikolam in the Attapadi valley was nearly completed.

(c) Miscellaneous Works.

11. The works carried out were sinking and repairs to wells, construction of dams, fencing depots, reserved forests and rest-houses, clearing compounds and repairs to compound walls. The total expenditure incurred was Rs. 5,735. Six wells were dug, —four in *South Canara* and one in each of *South Malabar* and *South Coimbatore*; two in *North Malabar* and three in *Kollegal* were in progress. One ramp on the bank of the river at *Wandse* in *South Canara*, one permanent and several temporary dams for training the *Kanoth* stream in *North Malabar* were constructed, and an elephant-proof shed for hydraulic ram at Mount Stuart in *South Coimbatore* was commenced. The training of the *Kanoth* stream in *North Malabar* deserves special mention, being, I believe, the first work of this sort undertaken in the Presidency. The floating power of the stream has been greatly improved by the training works.

3. Protection of Forests.

(a) General Protection.

12. The following is a comparative statement of the year's offences :—

Class.	Injury to forest by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.
Reserved forests.										
Cases taken into Court ..	34	39	319	307	188	155	98	101	639	602
Cases compounded ..	50	37	1,145	1,273	449	595	121	174	1,765	2,079
Cases undetected ..	383	350	7	2	12	6	..	..	402	358
Total ..	467	426	1,471	1,582	649	756	219	275	2,806	3,039
Unreserved lands.										
Cases taken into Court ..	..	..	66	36	..	..	1	2	67	38
Cases compounded ..	1	2	332	316	..	..	3	15	336	333
Cases undetected ..	..	..	..	1	..	..	..	..	..	1
Total ..	1	2	398	353	..	..	4	17	403	372
Grand Total ..	468	428	1,869	1,935	649	756	223	292	3,209	3,411

Offences in reserved forests.—The offences under "injury by fire" decreased while those under other classes increased, the net increase being 8 per cent. The decrease under "injury by fire" was chiefly in *South Canara*; no explanation is given for this decrease and the increase under other classes of offences. The increase under "illicit fellings" was mainly in *South Canara* and *North Coimbatore* while that under "illicit grazing" and "other offences" was in *South Canara* and *Kollegal*. The increase in *North Coimbatore* is attributed to better protection in Bhavani range and that in *Kollegal* to vigorous detection coupled with the encouragement by rewards granted in a few cases.

Of the cases taken into court, the percentage of convictions obtained was 91 against 86 in the previous year and the number of withdrawn cases decreased by 50 per cent. Sentences passed by the Magistrates are reported to be fair in *South Canara*, satisfactory in *South Malabar*, adequate in the *Nilgiris*, fairly satisfactory and deterrent in some instances in *Central Coimbatore*, sensible and judicious in *South Coimbatore*, lenient in cases of illegal rescue of cattle in *Kollegal* and not deterrent in *North Coimbatore*; no comment is made in *North Malabar*.

One thousand seven hundred and thirty-one cases were compounded against 1,489 in the preceding year and fees amounting to Rs. 15,131 realized against Rs. 1 ,753 in the last year. The increase was chiefly in *South Canara*, *Kollegal* and *North and South Coimbatore* and was due to increase in the number of cases of illicit grazing in *Kollegal* and *South Coimbatore*; the increase in the other two districts has not been explained but was apparently due to the increase in the number of cases compounded.

Working of the rules for compounding grazing offences.—These have not been introduced in *South Canara* and *South Malabar* as there is no wholesale illicit grazing in the former district and all forests in the latter are closed to grazing. In the *Nilgiris* the rules which do not seriously modify the existing practice are reported to have worked well but the provision of making the compounding fee cover the issue of permits is found not to be practicable. In *North* and *South Coimbatore* the rules were adhered to with no appreciable advantage; in *Central Coimbatore* they worked satisfactorily. The increase of scriptory work in the preparation of notices is complained of in some districts. In *North Malabar* and *Kollegal* no reference is made to this subject.

The percentage of undetected cases to the total number of offences was 11·7 against 14·3 of the previous year. Undetected cases were mostly under "injury by fire" and several of the fires for which no regular offence reports were received were treated as undetected. The great majority of offences always remain undetected and even the detected cases are not all reported; there is still much room for improvement. This is inevitable owing to underpaid protective staff and to inadequate establishment.

The districts in which action was taken in the matter of holding adjacent villagers responsible for commission of offences in particular forests were *North Malabar*, *Kollegal* and *North Coimbatore* in which notifications defining the forests and adjacent villages responsible for commission of offences therein were published. In one instance in *Kollegal* a portion of a forest was closed to grazing as a penalty for the occurrence of fires. For want of establishment the conditions of the notification were not enforced in *North Coimbatore* and no action was taken in *South Canara* and *South Coimbatore*. In *South Malabar* and the *Nilgiris* the application of the system is not practicable as cattle owners are not confined to particular villages in the former district and as forests and hamlets are scattered in the latter and graziers are migratory. No action is possible in *Central Coimbatore* until the forests are sub-divided into small grazing blocks.

13. *Offences in unreserved lands.*—No return has been furnished by one of the divisional officers in *South Coimbatore*; in *Central Coimbatore* 202 cases are reported to have been compounded, 18 prosecuted and 7 withdrawn with no details of the nature of offences. In some districts only those offences actually dealt with during the year are brought to returns, pending cases being unaccounted for. Under these

circumstances no useful comparison can be made. So far as particulars are furnished the total number of cases compounded was 507 and the amount of compounding fees realized, Rs. 6,159.

14. *Rewards.*—In *South Canara* a clerk of the District Munsif's Court, Kasaragod, was granted a reward of Rs. 15 for reporting a case of illicit felling of fuel in unreserved lands, which he detected while on special duty as a census supervisor. A reward of Rs. 17 was granted in one important case of theft of timber in the *Nilgiris*. In *Kollegal* rewards amounting to Rs. 25 and Rs. 80 were granted to informers and subordinates respectively. In *North Coimbatore* twelve persons who rendered good services in the detection of seven cases were granted rewards aggregating Rs. 57. Four subordinates in *South Coimbatore* were granted rewards amounting to Rs. 30 in two forest cases.

(*b*) *Protection from fire.*

15. *Special protection.*—There was no change in the system of protection. The area subjected to systematic protective measures was 1,022 square miles against 994 square miles in the previous year; the percentage of area which escaped from fire was 93 against 95 in the last year. Considering that the season was an exceptionally hot and dry one, the results were generally good. In *North Malabar* about 19 square miles were burnt by a single fire due to incendiarism and the extent of the fire was mainly owing to carelessness of the forester in charge whose services have since been dispensed with. There were remarkably few fires in Mudumalai range forests in the *Nilgiris* due to employment of Kurumbers on fire protection and other departmental works; at the close of the fire season rewards amounting to Rs. 121 were distributed, and it is hoped that the results will be seen in the 1913 fire season. A large area in Chikailur reserved forest in *Kollegal* was burnt owing to delay in firetracing, slight rains having interfered at the commencement. There were extensive fires in *North Coimbatore* and consequently about 85 square miles of forests were closed to grazing for part of the year. Special protective measures were extended during the year to the Varigali valley in *South Coimbatore*.

The cost of protection per square mile of area attempted was Rs. 27-6-8 against Rs. 26-4-3 in the last year; the increase was chiefly due to works in the area newly brought under protection.

16. *General protection.*—The areas reported under this head are only in *South Canara* and the four divisions of *Coimbatore*. Two thousand five hundred and twenty six square miles were protected against 2,540 square miles and the percentage of failure was 8 against 2 in the previous year. The registration of fires in these areas was unreliable as in past years. In *South Coimbatore* extensive areas are burnt annually on the grass hills but not reported on for want of establishment. The District Forest Officer, who had the opportunity of inspecting these forests during the last fire season, thinks that the area burnt must run into several thousands of acres. All the fires are reported to be intentional caused partly by planters for improving grazing for game and partly by hillmen for facility in collecting minor produce.

17. Appendix D shows the number and origin of fires during the year. In *South Canara* there was a decrease in the number of fires and the area burnt which is attributed to the entertainment of fifteen additional guards. The fires in other districts were generally due to the very bad season.

(*c*) *Protection against cattle.*

18. 78·8 per cent. of the total forest area was open to grazing of cattle but closed to goats. The area closed to all animals for the whole year was 510 square miles or 11·8 per cent. against 465 square miles in the previous year, while the area closed for part of the year was 172 square miles or 3·9 per cent. against 4 square miles; the increase in the former was due mainly to closure of three blocks in *South Coimbatore* according to the provisions of the grazing scheme for Udumalpet and that in the latter to closure of large areas in *Kollegal* and *North Coimbatore* on account of extensive fires. The forests are still far too heavily grazed over.

The number of animals impounded during the year compared with that of the previous year and the average of the three preceding years is given in Appendix E. The impoundings compared with those of last year increased from 9,681 to 11,431. The fluctuations are marked in *Kollegal* and *North Coimbatore.* In *Kollegal* the impoundings from open forests decreased while those from closed forests increased; the decrease is not real, but was due to the increase in the number of cases of illegal rescue of cattle; the increase under closed forests was due to better protection. Improved protection accounted for the increase in *North Coimbatore.*

(d) Protection against injuries from natural causes.

19. *North Malabar.*—Lantana was uprooted in three sample areas in the Begur plantations and in the compound of Chedleth forest station which will be sown with castor this year to test the effect of castor in keeping down lantana; a portion of the compound has already been planted with guinea grass. *South Malabar.*—In April and May, the teak plantations in Nilambur and Amarampalam ranges suffered severely from an attack of the defoliator, *Hyblœa.* No action was taken. Locusts appeared twice at Nilambur and Nedungayam; 810 seers of locusts were collected and destroyed in the Nilambur plantations at a cost of Rs. 23; at Nedungayam attempts were made to collect and destroy the immature insects, but the coolies found the work too hard, compared with results; only Rs. 3-8-0 was spent. A storm in June broke or uprooted several trees in Nellicutta and New Amarampalam, and a heavy flood on the 18th July slightly extended last year's erosion in Chatamborai. *Kollegal.*—Spike in sandal continues to spread in spite of the removal of spiked trees. *North Coimbatore.*—A fresh outbreak of spike occurred at Hassanur; the spiked trees were removed; spike is now spreading slowly and it is hoped that the disease may have nearly exhausted itself. Prickly-pear was removed from four coupes. *Central Coimbatore.*—Uprooting prickly-pear having proved too expensive to be carried on on a large scale operations were limited to keeping clear the areas cleared in previous years. *South Coimbatore.*—Lantana continues as a pest in the leased and adjoining forests; it was cut back in some plantations, and a certain amount was uprooted near the Anaipadi camp. Cutting back lantana is worse than useless, uprootal is the only cure.

4. Sylviculture.

(a) Natural Reproduction.

20. *South Canara.*—It was a bad year for *Hopea parviflora* seed. Catechu seeded well, but seedlings were destroyed by grazing and excessive shade. *Xylia dolabriformis* reproduced well from seed and coppice. *North Malabar.*—Except in the species of Teak, Venteak and Mango reproduction from seed was good; *Dalbergia latifolia*, *Terminalia tomentosa*, *Pterocarpus Marsupium* and *Shorea talura* specially good; the first three of these species and teak reproduced well from coppice. *South Malabar.*—In the natural forests seedlings of *Xylia dolabriformis*, *Terminalia paniculata*, *Lagerstrœmia microcarpa* and *Dalbergia latifolia* were abundant. In the plantations, Swietenia macrophylla seedlings were plentiful. *Nilgiris.*—Seedling reproduction of the more valuable species was, as usual, poor in the Nilgiri Wynaad. *Kollegal.*—In the Madeswaranmalai reserve *Hardwickia binata* and *Anogeissus latifolia* and in the Gundal valley *Shorea talura* reproduced well; sandal reproduction was satisfactory. The male bamboo seeded profusely in the western portion of the district. Coppice reproduction was from good to very good in all the fuel working circles. *North Coimbatore.*—Sandal reproduction was good where the seedlings were out of reach of cattle. *Shorea talura* reproduced well where protected from fire, and *Dalbergia latifolia*, *Anogeisus latifolia*, *Petrocarpus Marsupium*, *Chloroxylon Swietenia*, *Hardwickia binata* and teak reproduced well in the few areas protected from both fire and cattle. Coppice was not as good as usual owing to the exceptionally hot and dry season. *Central Coimbatore.*—In Attapadi valley, reproduction of *Mesua ferrea*, *Pterocarpus Marsupium*, *Anogeisus latifolia* and *Dalbergia latifolia* was good. In the rest of the forests it was poor, seedlings sprang up but died either owing to want of moisture or to being trampled by cattle. In Singara tope and Kotagiri Working Circles, protected from fire and closed to grazing, *Hardwickia binata* seedlings are established. Coppice growth was good in the moist forests to the west and poor in the dry forests to the east. *South Coimbatore.*—Reproduction of the more valuable species was unsatisfactory on the whole; the result of opening the canopy is very

marked in the Tekadi leased forests where teak is coming up well in some of the opened areas. In Punachi, areas round parent trees were cleared and the soil worked up, but no results are yet visible. It was a good seed year for both the valuable and the valueless species.

(*b*) *Artificial Reproduction.*

Regular plantations.

21. In *North Malabar* 10,000 teak seedlings were planted in groups in the blanks in coupe X of Kurichiyat reserve and were thriving at the close of the year. The *Pterocarpus Marsupium* and teak seedlings planted in Begur coupe VIII last year withered owing to failure of early rains. In *South Malabar* 134 acres were planted with 91,120 teak seedlings and 2 acres of land too wet for teak with *Terminalia tomentosa*, *Pterocarpus Marsupium* and *Lagerstromia lanceolata*; one acre of the cleared area was too swampy to plant with anything. Eightythree acres were cleared for 1912 plantation, and advantage was taken of a favourable season to plant 29 acres before the close of the year. In 1910 plantation, casualties were not numerous and were not replaced. In 1908 plantation dibbling instead of planting was successful; if this system can be extended, it will diminish the cost of forming plantations. The Beypore cocoanut plantation was maintained and plot J was ploughed and manured with a special fertiliser, as an experiment. In the *Nilgiris* the experimental plantations of nine species of *Eucalyptus* were maintained; the Snowdon plantation is now fully stocked, some species having reached a height of six feet; the Aramby plantation is $\frac{3}{4}$ and the Keti plantation $\frac{1}{2}$ stocked; difficulty in raising seedlings is still experienced. In *Central Coimbatore* 1,500 mahogany seedlings were planted out at Dhoni; most of them perished from drought. In coupe V of Virumandampalayam reserve, Erode range, 19,116 palmyra seeds were put down; it is reported that they all germinated and 5,860 survive. In *South Coimbatore* 40 acres of compartment 2, Mount Stuart Working Circle, were clear-felled and 30 acres planted with teak, rosewood and vengai; failures in previous years' plantations were replaced. In Udumalpet range 15 acres in Amravati and 35 acres in Kamanuthu Working Circles were planted with teak, rosewood and vengai, but both areas were complete failures.

Taungya plantations.

In *South Canara Terminalia tomentosa* and *Pterocarpus Marsupium* seeds were sown in the kumaried areas in Kasaragod range. Teak seedlings were also planted out in the same areas. In *North Malabar* the ponam cultivators of Kanoth range sowed mango, jack and teak in 250 acres; results uneven, but far from bad. A new departure was made by giving some Kurichiers land for ponam free on the condition that they cultivate the same area for two successive years; if this succeeds the seedlings will have a better chance of becoming established, and the area required for ponam will be reduced.

Cultural operations.

In *South Canara*, broadcast sowing of *Hopea parviflora* and *Acacia Catechu*, and dibbling of *Terminalia tomentosa* and wild jack were continued; with the exception of *Acacia Catechu* the results were satisfactory and it is estimated that about two lakhs of seedlings result from the operations of the last few years. The *Acacia Catechu* seedlings are eaten by cattle in the areas open to grazing and smothered by the more rapidly growing coppice in the young coupes closed to grazing. In *North Malabar*, heads of trees were heaped and burned in the Begur and Chedleth timber coupes, and teak seeds sown in the ashes; the results are very irregular. The Neduthana orange tope trees were pruned and 150 seedlings planted; the tope was cleared of forest growth, grass and lantana. In *South Malabar* 45 acres of third-class areas planted in previous years were weeded and casualties were replaced. The *Swietenia macrophylla* plants were much damaged by deer; a German method of protecting plants from deer by washing the young plants with a mixture of cow-dung, blood and sand is now being tried. In the *Nilgiris* the tuckle plantation area was extended by seven acres; elephants, deer and grass caused much damage. In *Kollegal* two nurseries were formed and 25,100 *Shorea talura* seeds sown; seed was collected for sowing in trenches on the Gundal slopes; 375 measures of sandal seed were collected and dibbled in under bushes in the Guligai reserve, and 815 measures were similarly used in coupes V and IX of Bylore Working Circle.

In *North Coimbatore* the *Pterocarpus Marsupium* seedlings of 1911 suffered from drought, a nursery of Vengai, Rosewood and *Terminalia tomentosa* was formed at Geddesal, some Vengai was planted out in open grassy areas and in scrub jungle; they apparently died down but revived with the June rains. Bamboos were clear felled in coupe V of Kavalur and 310 teak seedlings planted; the abnormally dry hot weather killed most of them. A thousand teak seedlings have been raised for planting in coupe VI Kavalur. Thirtytwo bags of seed (vengai, rosewood and *Terminalia tomentosa*) were sown at Geddesal in May, and germinated fairly well, but many will die (as has happened to those sown last year) during the hot weather. Nine bags of seed were dibbled in the coupe for agricultural implements at Dhimbam. At Onnaitittu two patches were sown with vengai seed, one with ordinary seed, the other with seed soaked in cowdung; 17 per cent. of the former and 27 per cent. of the latter germinated. Seed was also dibbled in several fuel coupes, but owing to want of rains the operation appears to have failed. Sandal seed was dibbled in coupe VII Gutialattur and coupe V Bargur; in the former coupe seedlings appeared in May, but subsequently disappeared. No results have been found in Bargur. In *Central Coimbatore* broadcast sowings in Modur, Odanthorai and the fuel reserves of Erode range were failures. Preparations for sowing in trenches were made, and 5,000 seedlings of vagai, vengai and rosewood have been raised for planting out in Modur reserve.

(c) Operations for improvement of the growing stock.

22. *In South Canara* creepers were cut and soft wood trees girdled over 838 acres; over another 973 acres creepers were cut on payment and over 700 acres, the same operation was carried out by the protective establishment. In *North Malabar* lantana was uprooted in Chedleth camp and the Begur plantations where also creepers were cut over 200 acres. *In South Malabar* 469 acres of plantations in Nilambur range and 337 acres in Amarampalam Range were thinned, and 5,226 teak saplings damaged by wild elephants were cut back, creeper cutting was carried out in Karimpoya plantations over 602 acres, and the Panakadan reserve over 6 acres. The wire-fencing at Beypore was repaired and extended. Parasites were removed from 659 acres in Nilambur range and 133 acres in Amarampalam range; from the latter area the stacked parasites measured 3,679 cubic feet. Weeding was carried out over 703 acres of young plantations, but want of labour made it impossible to do as much of this work as was required. The 1909 and 1910 plantations were pruned and undergrowth was removed in lines one chain apart over 806 acres to facilitate marking for thinnings. In *Kollegal* 10 acres of teak were thinned and inferior species removed; the fencing of felled coupes in Gundal was commenced, thorns and creepers were cut in coupe IV and part of coupe V of Chikailur Working Circle, and 23,140 bamboos (chiefly dead or dying) were removed from Gundal and Araipalayam coupes. In *North Coimbatore* spiked sandal was removed from Hassanur coupes I and II and creepers on sandal were cut in Satyamangalam and Bargur ranges; the work was neglected in Talamalai owing to slackness of the Range Officer. *In Central Coimbatore*, creepers were cut off standards in all the fuel coupes. The removal of dead bamboos from Walayar and Sholakarai reserves continued. *In South Coimbatore* inferior species interfering with valuable species were girdled or felled over 179 acres in Mount Stuart Working Circle and in coupe III of Punachi Working Circle. Weeding, to free seedlings, was carried out over 120 acres of coupe I of Punachi, and bamboos were felled over 50 acres in Tekadi in order to improve regeneration. The Ganapathy reserve was fenced to protect it from cattle. Lantana was uprooted in the Anaipadi plantations.

(d) Experiments.

(i) *On species.*

23. *Swietenia Mahagoni.*—The plants in *South Canara* and *North Malabar* continued to thrive; growth is slow in the latter district. In *South Malabar* there were a few casualties, but several hundred trees are doing well. In the *Nilgiris* the trees planted in the Benne tuckle areas were badly damaged by deer; one tree, 20 years old, was felled, and as might have been expected was found to contain no heartwood.

Swietenia macrophylla.—In *South Malabar* the large tree at Chathamboraı planted in 1873, is now 101⅛ inches in girth and 100 feet in height, the annual girth increment of the trees in the Pokote and Eddacode plantations is 2 inches; it is now evident that the tree will thrive and it can be removed from the list of experiments.

Manihot Glaziovii is doing badly in *South Malabar*; the plantation at Mount Stuart thrives and natural reproduction is prolific; no attempt to develop the plantation or tap the trees has been made.

Cedrela odorata continues to thrive at Nilambur and Coimbatore.

Hevea braziliensis and *Landolphia florida* are doing well in *South Malabar* but *Kicksia africana* is only alive and not flourishing.

The last surviving *Platymiscium platystachyum* died during the year.

Cassia oak on the *Nilgiris* survives, but grows very slowly: *Pinus insignis* on the contrary put on a considerable height growth during the year, though it is reported that other samples of this species already established on the *Nilgiris* show that the tree is not a success.

Camphor is thriving in Sim's Park, but the *Erythrina latissima* specimens have all died.

Sesbania aculeata.—Two measures of seed sown at Girgagandy yielded only one and a quarter measure of seed; the failure is ascribed to drought.

Fagræa fragrans, seed received from Tenasserim was sown at Nilambur but did not germinate.

Bamboos.—*Arundinacea Brandisii*, *Bambusa vulgaris*, *Dendrocalamus longispathus* and *Cephalostachyum pergracile* in *South Malabar* are doing well. In the *Nilgiris*, nine varieties of Japanese bamboos, planted by Mr. Gamble some 25 years ago were removed from Chinna Coonoor plantation and planted out in Sim's Park, Ootacamund Government gardens, the club compound and at Cairn Hill; those in Sim's Park are doing extremely well; at the higher elevations their growth is slow. A new bamboo, *Thyrsostachys Copelandii* from the Shan Hills, sent by Mr. Troup, has been planted out at Cairn Hill. In *Kollegal* an experiment was commenced to determine the effect of cutting bamboo clumps at different periods of the year, one acre was cleared in each month, the results have not yet been collected. Green bamboo clumps were also burnt to see whether this would kill the rhizome, here also the results have not yet been collected.

(ii) *On other points.*

24. *South Malabar.*—The experiment to test the upward growth of teak stems was continued, the results are still inconclusive; half the stems were found to have sunk, while the other half had risen. Observations must be continued for some years. Teak saplings attacked by borer were coppiced in February 1911; in November 1911, 118 out of 133 stumps had sent up coppice shoots. Plantation and natural forest teak timber were tested for comparative strength by the Research Institute, Dehra Dun, the results were slightly in favour of plantation teak.

Kollegal.—An experiment in extraction of sandalwood oil was made, but want of experience rendered it useless.

North Coimbatore.—The experiment to determine the effect of fire on grass and on forest growth was continued, but the experimental area is badly situated, and so far all that is proved is that cutting the grass is more beneficial than burning it.

Sandalwood from Mysore and Coimbatore was analysed at Dehra Dun in order to see whether the latter is really poorer than the former; the result shows that Mysore sandalwood contains 0·7 per cent. more oil than Coimbatore wood.

Central Coimbatore.—The experiment to determine the effect of fire on grass and forest growth was discontinued, it will now be revived.

5. Exploitation.

(a) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

25. *In South Malabar*, 114·48 acres in coupes IV (*a*) and (*b*) of Karimpoya reserve were clear felled for the formation of plantations in 1912 and 1913; the amount realized was Rs. 3,434–6–5. In the *Nilgiris*, about 10 acres of acacia plantation in Snowdon block were felled on account of damage caused by a storm. Bamboo coupes in *Central Coimbatore* were clear felled.

(2) *Selection Fellings.*

26. Selection fellings were carried out in 59 acres of coupe VII of Madibare Timber Working Circle in *South Canara*, in 385 acres of coupe XVI of Begur and 515 acres of coupe X of Kurichiyat reserved forest in *North Malabar*. In the *Nilgiris*, mature, unsound and dead sandalwood trees which yielded 273 maunds were felled in Segur Range. In *Kollegal*, 800 sandalwood trees in coupe I (700 acres) of Madeswaranmalai and 243 trees in 100 acres of Edayarhalli reserved forest were felled and 2,683 spiked and dead trees were removed from coupe VII (3,150 acres) and coupe VIII (2,650 acres) of Bailur. In *North Coimbatore*, sandalwood trees were felled in five coupes aggregating 13,120 acres and bamboos extracted from nine coupes of 18,581 acres. Compartment XVIII of Tekadi leased forest and coupe III of Punachi Working Circle in *South Coimbatore* were felled.

(3) & (4) *Improvement and Coppice Fellings.*

27. *South Canara.*—Twelve fuel coupes covering about 731 acres in Coondapur and Sankaranarayana ranges and portions of two coupes (46 acres) in Puttur and Kasaragod ranges were coppiced. One hundred and twentyfour acres in Udipi range were felled to supply fuel to two hundred sandalwood oil stills. *North Malabar.*—A coupe of 25 acres in Kanoth reserve was felled for supply of fuel to Tellicherry town. *South Malabar.*—Thinnings were carried out in teak plantations and 36,914 teak and 800 miscellaneous trees were removed; 151 dead, windblown and uprooted trees were also removed. *The Nilgiris.*—Improvement felling was carried out over 460 acres in Mudumalai Working Circle; the yield was 20,725 cubic feet of timber, mainly teak. Seventy acres of bluegum plantation in Ootacamund and Coonoor ranges were coppiced. *Kollegal.*—Four fuel coupes and fifty acres for supply of small timber and fuel were coppiced. *North Coimbatore.*—Coppice felling over ten fuel coupes, and 116 acres for supply of brakepoles and agricultural implements. *Central Coimbatore.*—All fuel coupes were as usual worked under coppice with standards. *South Coimbatore.*—Two hundred and eightyeight acres were coppiced and improvement felling was made over 341 acres in Mount Stuart and Punachi Working Circles.

(5) *Unregulated Fellings.*

28. Cinnamon leaves and firewood required for working 150 stills were removed from unreserved lands in *South Canara*; the revenue realized was Rs. 1,726. *North Malabar.*—Bamboos, deadwood, fibre, canes and reeds were removed on permits. *South Malabar.*—Bamboos were extracted on permits for rafting and floating timber. *The Nilgiris.*—The removal on permits of small timber, fuel, bamboos, etc., for local consumption continued. *Kollegal.*—Small timber, fuel (by head loads) and bamboos were removed on permits from a few restricted areas. *North Coimbatore.*—Timber (14,360 cubic feet) and fuel (7,680 cubic feet) from unreserved lands and 2,320 bamboos from reserved forests were removed on permits. *South Coimbatore.*—Bamboos were extracted by permit-holders as there were no located bamboo coupes.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

29. Minor produce was leased out with the following exceptions:—

By Departmental Agency.—Manufacture of catechu in *South Canara*; collection in reserved forests of *Kollegal* of all produce except barks and date leaves, in *North*

Coimbatore all except tamarind fruits, avaram bark and date leaves and miscellaneous produce in all ranges except one in the *Nilgiris* and in Udumalpet range in *South Coimbatore*. *By removal on permits.*—Metal, stones, sand, leaves, etc., in the *Nilgiris*, *Kollegal*, *Central* and *South Coimbatore*.

(2) *Extraction of Fodder.*

30. Fodder and thatching grass was removed on permits in *South Malabar* and *Coimbatore*. The concession of free removal of fodder and thatching grass from all reserved forests in *South Canara* and in the Wenlock Downs in the *Nilgiris* was continued; free removal was also allowed in Mudumalai and Benne forests in the latter district. There was little demand in the *Nilgiris* and no abuse is reported from *South Canara*. The concession is not required in *Malabar* owing to existence of a vast extent of private forests and was not permitted in any of the divisions of *Coimbatore*, where there is no necessity for it nor is it desirable to allow the concession.

(3) *Hay-making.*

31. In *South Canara* about twenty tons of hay were collected partly by payment and partly by cartmen for feeding Government bullocks. About 57 tons of hay were manufactured in *Central Coimbatore* at a cost of Rs. 514 and sold at a net profit of Rs. 105. The previous years' stock was also disposed of. The local cattle owners have begun to appreciate the value of hay and a demand for it has sprung up. This is an important step in advance and possibly in a year or two the right to make hay in some of the forests of Erode range may be sold.

(4) *Grazing.*

32. The forests in *South Malabar* are closed to grazing. Goat browsing is entirely prohibited. Grazing was, as usual, regulated by issue of permits for specified areas except in the *Nilgiris* where a single permit was applicable to all the forests in the district. The question of enhancing grazing fees for the purpose of remedying the existing overgrazing in *North Coimbatore* and the revised proposals for regulation of grazing and enhancement of fees in the *Nilgiris* were pending orders of the Board. A statement showing in detail the grazing possibility of reserved forests in all districts except the *Nilgiris* was made out and submitted to the Board. In *South Coimbatore*, the Udumalpet grazing scheme has borne mixed fruit; the villagers admitted to some blocks complain of the restrictions, while others appreciate having blocks reserved for them.

The number of cattle licensed to graze on payment was 373,913 against 298,332 in the previous year and 371,181 the year before. The decrease in 1910–1911 was due to change of grazing season in some of the districts.

(*b*) Agency of Exploitation.

(i) *Departmental Agency.*

33. *Major produce—South Canara.*—Felling of one timber and of six and portions of two fuel coupes; also creeper cutting, girdling of soft species and improvement fellings. *North Malabar.*—Collection of 4,566 cubic feet of timber from windfalls and felling fuel and extracting bamboos in Kanoth range for supply to Tellicherry town. *South Malabar.*—Thinning of teak plantations, dragging logs and saplings to riverside depots and floating them to Beypore. *The Nilgiris.*—Timber operations in Mudumalai and extraction of sandalwood in Segur range. *Kollegal* and *North Coimbatore.*—Felling sandalwood, small timber, fuel and bamboos. *Central Coimbatore.*—Felling of three and portions of two fuel coupes and manufacturing charcoal for supply to Coimbatore town and to the Central Jail. *South Coimbatore.*—Felling timber and fuel and transport of timber to depots.

Minor produce.—Works detailed in paragraph 29 and the manufacture of hay in *South Canara* and *Central Coimbatore*.

34. *Disposal of produce at the edge of the forests—South Canara.*—Fuel was sold on a small scale at the edge of two forests and bamboos from a coupe in Uppinangadi Range. Kumakies and unreserved lands continued to meet the demand for fuel and leaves. *North Malabar.*—There is no demand for Government produce as private

forests and other well wooded lands supply the requirements of the ryots. *Kollegal* and *North Coimbatore.*—Fuel felled departmentally was sold in the forests; in the former district fuel was sold at one forest-edge-depot and small coupes at the edge of forests in four localities were opened. *South Coimbatore.*—Fuel and agricultural implements were retailed in two coupes in Pollachi Range. In *South Malabar* and the *Nilgiris*, no action was taken as the system cannot be applied; in *Central Coimbatore*, most of the coupes were sold standing and the contractors sold a large quantity of fuel, bamboos and timber in the forests.

(ii) *By Purchasers.*

35. Six fuel and one timber coupes in *South Canara*, all the timber coupes in *North Malabar*, nine bamboo coupes in *North Coimbatore* and all fuel coupes except five and bamboo coupes in *Central Coimbatore* were sold standing. The depot at Mangalore in *South Canara* was as usual leased out; and the Coimbatore town depot was transferred to private agency at the close of the year. Coupes IV (*a*) and (*b*) of Karimpoya in *South Malabar* were clear felled on contract. Felling and carting fuel in Coonoor and Ootacamund ranges were done on contract. The unregulated fellings and the lease of minor produce are referred to in paragraphs 28 and 29.

(iii) & (iv) *By Right-holders and under privileges and free-grants.*

36. The quantity and estimated value of produce removed by right-holders and free grantees are shown in the following abstract:—

	Timber.		Fuel.		Bamboos.		Grass and grazing.	Other minor produce.	Total.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	Value.
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
Right-holders	51,747	20,506	33	2	1,371	4	726	13	21,251
Free grantees	11,053	2,174	636	33	13,056	91	..	98	2,396
Total ..	62,800	22,680	669	35	14,427	95	726	111	23,647

The estimated value of produce and grazing enjoyed by right-holders and removed by free-grantees was Rs. 21,251, and Rs. 2,396, respectively, against Rs. 26,054 and Rs. 2,033 in the previous year. The above abstract does not include the produce removed in *South Canara* under the kumaki rules and the enormous quantity of fuel removed by Badagas in the *Nilgiris* on payment of a nominal annual fee of one rupee per house, as particulars are not available. In *South Canara* free grants amounting to Rs. 969, and 327 were made to religious institutions and works of public utility, respectively; the grants in other districts were chiefly for rebuilding houses destroyed by fire.

(c) OUTTURN AND SOURCES OF FOREST PRODUCE.

37. The total outturn of major and minor produce collected during the year by different agencies is compared with that of the previous year in the following abstract:—

Agency of exploitation.	Timber including sandalwood in cubic feet.		Fuel in cubic feet.		Bamboos in number.		Minor produce including grass and grazing in rupees.	
	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.	1910-11.	1911-12.
1	2	3	4	5	6	7	8	9
By Government Agency.	258,562	281,316	1,715,087	2,175,521	1,77,436	122,914	24,523	24,496
By purchasers	157,955	259,715	1,479,844	1,284,676	5,033,373	4,317,539	75,695	129,111
By right holders	63,975	51,747	..	33	..	1,371	568	739
By free grantees	7,296	11,053	1,160	636	14,726	13,056	419	98
Total ..	487,788	603,831	3,196,091	3,460,866	5,225,535	4,454,880	101,205	154,444

Departmental Agency—Major produce.—The increase under "timber" was due chiefly in *South Malabar* to the large number of teak logs and poles obtained from thinnings in plantations, and in *South Coimbatore* partly to felling of timber in the Varigali valley and partly to better stock and heavier marking of trees in the other areas worked. The increase under "fuel" was due to increased demand in the *Nilgiris*, to better working in *Kollegal* and *South Coimbatore* and to more areas worked and increased outturn in *North Coimbatore*. The decrease under "bamboos" was due chiefly to the fact that in the previous year a large number of bamboos was removed in *Kollegal* for construction of plague camps. *Minor produce.*—Sixteen tons of catechu were manufactured in *South Canara* and sold at an average rate of Rs. 805 per ton against Rs. 724 in the previous year. The total outturn under "minor produce" was 207 tons against 221 tons in the last year, the decrease being chiefly in *North Coimbatore* due to poor outturn of gallnuts, sheakoy and deer horns. *By purchasers.*—Owing to untrustworthy accounts maintained by contractors and to the unsatisfactory method of calculating the outturn by dividing the amount of sales by seigniorage rates, no useful comparison can be made. The increase under "timber" was chiefly in *South Canara*, *North Malabar* and *North Coimbatore*; in the first two districts, it was due to causes explained in Chapter III and in the last district to the outturn from unreserved lands being brought to returns this year while it was omitted last year. The outturn under "fuel" decreased chiefly in reserved forests in *South Canara* and in unreserved lands in *Central Coimbatore*; the decrease in the former district has not been explained and in the latter was due to less removals on lands darkhasted for. The decrease under bamboos was mainly in *Kollegal* for the reason given under departmental agency and in *North Coimbatore* due to inferior growth and to decreased area worked.

CHAPTER III.—FINANCIAL RESULTS.

38. The revenue and expenditure of the year under report are compared with those of the previous year and the average of the preceding quinquennium in the following abstract:—

——	1911-1912.	1910-1911.	Average of preceding five years.
	Rs.	Rs.	Rs.
Revenue	*7,89,763	6,17,867	6,94,841
Expenditure—			
Refunds	2,405	5,212	2,170
A. Conservancy and works	4,71,572	4,09,498	4,42,139
B. Establishments	3 57,718	3,37,137	2,69,799
Total expenditure ..	8,31,695	7,51,847	7,14,108
Deficit ..	41,932	1,33,980	19,267

* Excludes Rs. 3,588 and Rs. 240 relating to the Bombay Presidency and Madura, respectively.

The net results of the year show a deficit of Rs. 41,932; the gross receipts were a record for the circle and exceeded those of the last year and the average of the preceding five years by 27·8 and 13·6 per cent. respectively. The Nilgiri district is always worked at a loss owing principally to the large concessions granted to hill tribes, but partly also to the peculiar circumstances of the district and to the unsound working of the Mudumalai forests in bygone years. With the removal from the circle of the revenue producing districts of Madura and Tinnevelly the circle may have to be worked at a small loss for some years to come, though I hope to make revenue and expenditure balance. I append a statement showing the annual results from 1901-1902 up to date.

Year.	Revenue.	Expenditure.		Net result.
		A. Conservancy and works including refunds.	B. Establishment.	
	Rs.	Rs.	Rs.	Rs
1901–1902	4,13,458	2,84,183	2,29,851	— 1,00,576
1902–1903	4,95,489	3,24,780 * 28,000	2,19,498	— 48,789 — 28,000
1903–1904	5,13,408	3,01,071	2,18,709	— 6,372
1904–1905	5,10,911	3,81,118	2,45,050	— 1,15,257
1905–1906	5,93,002	4,27,653	2,48,846	— 83,497
1906–1907	7,67,622	4,34,017	2,52,697	+ 20,908
1907–1908	6,98,278	4,65,752	2,62,406	— 29,885
1908–1909	7,43,025	3,98,606	2,78,215	+ 66,204
1909–1910	7,32,281	4,95,520	3,06,831	— 70,070
1910–1911	6,17,867	4,14,710	3,37,187	— 1,33,980
1911–1912	7,89,763	4,73,977	3,57,718	— 41,932

* Approximate figure under Survey of India furnished by the Comptroller, India Treasuries.

Of the receipts, 64 per cent. was derived from major produce, 10 per cent. from grass and grazing, 10 per cent. from minor produce and 16 per cent. from miscellaneous sources. About 35 per cent. of the expenditure was devoted to the upkeep and improvement of the forests, 37 per cent. to exploitation and 28 per cent. to miscellaneous items. The estimated value of produce at sale depots at the close of the year was Rs. 2,98,188 against Rs. 2,59,448 at its commencement showing a difference of Rs. 38, 740 in favour of the year under report ; this increase in value of stock nearly cancels the financial loss on the year's working as shown by actual revenue and expenditure. The outstanding revenue at the close of the year was Rs. 39,162, of which Rs. 4,619 fell due within the year.

The more important variations between the actuals of the year and those of the the previous year are explained below.—

RECEIPTS.

(i) *By Departmental Agency.*

Timber+40,209. Due chiefly in *South Canara* to sale of surplus stock of inferior timber, in *North Malabar* to realization of the outstandings of the previous year, in *South Malabar* partly to sale of the whole stock of timber including previous year's stock and partly to sale of timber felled in block II of the New Amarampalam reserved forest and in *South Coimbatore* to better prices and more extensive sales.

Fuel + 9,906. Due chiefly to the credit of the Bombay Presidency revenue above referred to and to increased demand for fuel in *South Canara* and the *Nilgiris* coupled with slightly higher rates in the former district and to the improved sales in *Kollegal.*

Bamboos + 3,008. Due to increased rate in *South Canara* and to sale at higher rates of large bamboos used for rafts in *South Malabar.*

Sandalwood—10,241. Due in the *Nilgiris* to last year's collection remaining unsold for want of reasonable offers and in *North Coimbatore* partly to sale of a comparatively large stock in the previous year and partly to a large balance remaining unsold or the value of which was not realized at the end of the year.

Minor produce+4,238. Due to better prices realized for catechu in *South Canara* to sale of previous year's stock in *Kollegal, North* and *Central Coimbatore* and to departmental collection in one of the ranges in *South Coimbatore.*

(ii) *By Purchasers.*

Timber+32,020. Due mainly in *South Canara* to increased revenue from value of the trees applied for on stump fees and standing on lands darkhasted for, and in *North Malabar* to sale of two coupes standing against one in the previous year.

Grazing+36,865. Due to collection of a full year's fees in *North Malabar* and the four divisions of *Coimbatore,* while in the previous year only renewal fees were collected owing to change of grazing season which is now coincident with the forest year.

Minor Produce+5,014. Due to collection of arrears in *North Malabar*, to increased demand for road material in the *Nilgiris* and to better prices obtained generally for minor produce leases in other districts except in *South Coimbatore* where there was a fall.

(iii) *Miscellaneous* (*including confiscated, drift and waifwood*).

Revenue+52,517. Due mainly to lease of additional lands on the Anamalais, supplemented by collection of arrear kumari rents, and compensation for damaged standards in coupes sold in *South Canara* and increased receipts under hire of elephants to contractors in *North Malabar*.

EXPENDITURE.

A. Conservancy and Works.

The expenditure exceeded that of the previous year by Rs. 62,074 and the increase was chiefly under "roads and buildings" due to formation of coupe roads in *South Canara*, construction of bridges on the Kottiyur road in *North Malabar*, metalling a portion of Nedungayam-Mundakaduvu road in *South Malabar*, heavy outlay on improvement to plantation roads in the *Nilgiris*, construction of Hosur-Chengadi road in *Kollegal*, improvement and repairs to roads in *North Coimbatore*, and construction of a large number of buildings in both divisions of *Malabar*, in the Attapadi valley and in *South Coimbatore*.

B. Establishments.

The posting of a third grade Conservator when the permanent officer was on privilege leave, the appointment of a second grade Conservator on special duty in connection with the organization of the Madras Forest College, the appointment of a Forest Map Officer, the increased establishment sanctioned for *North Malabar* and for Mudumalai in the *Nilgiris*, promotion of rangers, the revised scale of pay to the range clerical establishment and the payment of Royal Bonus chiefly accounted for the increased expenditure of Rs. 18,941 which excludes the expenditure shown under Madras Forest College.

CHAPTER IV.—ADMINISTRATION.

39. *Circle Charge.*—The size of the Circle was reduced during the year by the transfer of *Madura*, *Tinnevelly* and *Ramnad* districts to the newly formed fourth Circle which became the new "Southern Circle", and this, the remains of the old Southern Circle, became the "Western Circle". The charge of the Circle was held by Mr. J. S. Battie from 18th July to 10th October 1911, by Mr. P. M. Lushington from 11th October to 17th November 1911 and by the writer of the report for the rest of the year.

District and *Range Charges.*—There were no changes during the year. The head-quarters of *Kollegal* division were removed from Coimbatore to Kollegal.

Establishment.—The weakness of the subordinate establishment is much felt and has hampered the progress of works. Half the ranges were in charge of untrained men.

40. *Work of Superior Officers.*—The following remarks have been made by the Collectors regarding work of the officers serving under them. *South Canara—By Mr. Fotheringham*—"The District Forest Officer appears to have maintained the forests in as efficient a condition as possible, but poor health and inexperience hampered the Extra Assistant Conservator (Mr. K. Syed Edulla Sahib)". *Malabar—By Mr. Innes—North*—"Mr. Foulkes is a keen Forest Officer and takes great interest in his work." *South*—"Mr. Wimbush's work was satisfactory in every way." *The Nilgiris—By Mr. Young*—"Mr. Cox is one of the best Forest Officers I have known." *Coimbatore—By Mr. Hemingway—Kollegal*—"Mr. Littlewood was in charge throughout the year and has worked hard and efficiently". *North*—"Mr. Richmond continued to be in charge of the division throughout the year. His work has been excellent." *Central.*—"Mr. Fischer and Mr. Panchapakesa Aiyar both worked hard and gave me valuable help. Mr. Panchapakesa Aiyar is not as yet particularly good at paper work and is a little slow to see a point. He is however most industrious." *South.*—"Both Mr. Fischer and Mr. Wilson worked hard and efficiently. They were of the greatest assistance to me." To these remarks I have nothing to

add except that no Conservator could have a keener and more hardworking team of District Forest Officers. Extra Assistant Conservator Mr. Gaudoin worked hard, but is a trifle slow in getting through his work.

41. *Executive Establishment.*—Rangers J. Sadasiva Aiyar, G. S. Lasrado and Acting Ranger A. Swamikutti are especially commended for good work and the work of the others with some exceptions was fairly satisfactory. Six Rangers were reduced, two temporarily and four permanently, three of the latter were also suspended, one acting Ranger was suspended and another reverted, one probationary Ranger resigned and the probation of one was terminated. The acting Ranger who was under suspension at the close of last year was suspended for one year and reverted. The work of the Deputy Rangers with a few exceptions was not efficient. The men recruited have no training and are not of a class adapted to hard work in uncongenial surroundings. The establishment of the Madras Forest College will, it is hoped, attract the right class of men and improve the tone of the staff. Two resigned, one was reverted, one reduced temporarily, one suspended, one dismissed, the services of one were dispensed with and the probation of three was terminated.

42. *Protective Establishment.*—The conduct of the establishment was on the whole satisfactory in *North Malabar*, generally fair in the *Nilgiris* and that of Foresters and trained guards in *North Coimbatore* fairly satisfactory. In other districts it was as usual far from satisfactory. Thirteen men resigned, 28 were dismissed, 80 removed from service, 87 suspended and 13 reduced. In *South Canara* a Forester and two watchers misappropriated fuel valued Rs. 1,070; the Forester has since made good the loss to the extent of Rs. 546 and the matter was under further enquiry at the close of the year. In *Central Coimbatore*, one watcher was convicted and sentenced to seven years' rigorous imprisonment for stabbing an accused in a forest offence. In *South Coimbatore*, two guards were prosecuted, one for extortion and the other for reporting a false case; the former was acquitted and the case against the latter was pending. One depot-keeper was convicted for illicit shooting. The depot keeper in *North Malabar* whose prosecution was pending at the commencement of the year, was sentenced to two years' rigorous imprisonment and to pay a fine of Rs. 1,500.

43. *Ministerial Establishment.*—The work of the clerical staff is reported to be on the whole satisfactory in *South Canara* and *Kollegal*, good in *North Malabar*, the reverse of good in *North Coimbatore* and not satisfactory in *South Coimbatore*. The Head clerks of *South Malabar* and the *Nilgiris* are specially mentioned for good work and those of *Central* and *South Coimbatore* for dilatoriness and inefficiency. The Accountant of *South Coimbatore* was reduced for unsatisfactory work and an acting Head clerk of *Central Coimbatore* reverted for bad conduct. The services of one Range clerk in *South Canara* and one in *Central Coimbatore* and two Range clerks in *North Malabar* were dispensed with, and one Range clerk in *South Coimbatore* was reduced. The work of the Circle office was satisfactory.

44. *Health of the establishment and casualties.*—The health of the establishment was generally fair in *Kollegal* and *North Coimbatore* and bad in *South Canara*, *Malabar*, in the Attapadi valley in *Central Coimbatore* and on the Burgur and the Anamalai hills of *North* and *South Coimbatore* respectively. Casualties were five in *South Canara*, one in each division of *Malabar*, two in the *Nilgiris*, six in *Central Coimbatore* and two in *South Coimbatore*.

45. *Relations between Revenue and Forest Officers.*—The relations continued to be satisfactory. Range Officers attended the jamabandi in *South Canara*. Such attendance was not required in *Malabar* and was not carried out in *Coimbatore*, where the District Forest Officers did not receive Jamabandi Officers' programmes; the District Forest Officer, *Central Coimbatore*, however interviewed the Jamabandi Officers in two camps. In the *Nilgiris*, the Forest Officers were in constant communication with the Revenue Officers. No points of importance cropped up.

46. *Service Books.*—These are reported to have been maintained in all districts and verified to the close of the financial year except in *Central Coimbatore* where the verification was carried up to the end of May 1912.

47. *Tours of the Forest Member.*—The Honourable Mr. R. C. C. Carr inspected the Anamalai and the Tekadi leased forests in *South Coimbatore* and conferred with the Collector and the District Forest Officer, *Nilgiris*, on forest matters. The Honourable Mr. W. O. Horne held a conference at Coimbatore in which the policy to be adopted in acquiring enclosures in, and in revising the boundary description of reserved forests was discussed.

48. *Conservator's Inspection.*—The forests of *North Malabar* and the *Nilgiris* and part of the forests of *South Malabar* and *South Coimbatore* and all District Forest Offices except *Kollegal* were inspected. All the offices are generally in good order, but the quality of establishment is poor and there is room for improvement especially in accounts. The total number of days spent in camp during the year was 182. The provisions of section 248 of the Forest Code in the matter of detailed inspection of forests once in two years have been complied with.

49. *Touring of District Forest Officers.*—The District Forest Officer, *North Coimbatore*, spent in camp the minimum period of touring prescribed and the District Forest Officers of *North Malabar*, the *Nilgiris*, *Kollegal* and *Central Coimbatore* more than the minimum. The touring of the District Forest Officers of *South Canara*, *South Malabar* and *South Coimbatore* fell short by 26, 2 and 14 days respectively; the deficiency in the first district is ascribed to the indifferent health of Mr. clear and in the last district to the unavoidable stay of Mr. Wilson at head quarters for about two months.

50. *Inspection of Range Offices.*—All the Range Offices and sale depots were inspected during the year.

51. *Audit of accounts of District Forest Offices.*—The accounts of all the offices except the *Nilgiris* were audited by the Local Fund Audit Establishment. The Assistant Accountant General inspected four of the offices again and the office of the *Nilgiris*. The results of the inspections are reported to be generally satisfactory.

52. *Imperial Forest College, Dehra Dun.*—Two Rangers were deputed to undergo the third year's training. One nominee to the Provincial Service and one Ranger returned with higher standard certificates; the former has since been appointed as Ranger having been found unfit for direct appointment to the Provincial Service. No subordinates were deputed for Rangers' training, consequent on the impending opening of the *Madras Forest College*.

53. *Vernacular Training School.*—The school was held this year in *South Malabar* and started with 31 students, of whom two were acting Foresters. The health of the students was not good; several were on leave, one of them being absent for more than two months. The course was not completed until after the close of the year.

CHAPTER V—GENERAL.

54. *Realization of revenue from the usufruct of toddy-yielding trees on Government wastes and poramboke lands.*—There were no receipts from this source in *North Malabar*, *the Nilgiris* and *North* and *South Coimbatore* and the amounts realized in *South Malabar* and *Kollegal* were very small. The revenue collected in *South Canara* was Rs. 2,625 against Rs. 3,356 in the previous year. The palmyras in one of the reserved forests in *Central Coimbatore* were as usual leased out and fetched Rs. 9.

55. *Measures adopted to encourage the growth of manure-leaf-yielding trees and shrubs.*—The demand for green manure in *Malabar*, *Kollegal* and *North Coimbatore* was met from private forests and unreserved and patta lands. No action was taken or required in other districts.

56. *Supply of forest produce to meet the wants of the people.*—In *South Canara*, the concession of free removal from reserved forests, of thatching grass used at times as fodder was continued. The coupe contractors in one of the taluks were bound to maintain depots and retail fuel in certain localities and also required to allow the gleaning of brushwood on payment of three pies per head load; the latter arrangement is reported to have worked well. The demand of the ryots in *Malabar* was as usual met from private forests and unreserved lands; permits were also issued in *North*

Malabar for fuel and bamboos. In the *Nilgiris*, the concession of removal by Badagas of their annual requirement of fuel from reserved forests on payment of one rupee per house was continued. Fuel and charcoal were supplied to the public of Ootacamund and Coonoor partly from depots and partly by direct delivery from the forests. Small timber, agricultural implements and bamboos were retailed in *Kollegal* from small depots opened all over the division and placed in charge of Monigars and Permit Issuing Officers and in *North Coimbatore* from forest depots, the stock being cleared off also by periodical auctions. Small coupes were opened in *Kollegal* and fuel was sold at the edge of the forests to the neighbouring villagers and the supply of fuel to Kollegal town was arranged through contractors who purchased fuel from the forests and retailed at fixed rates. In *North Coimbatore* fuel felled departmentally was sold to contractors in coupes. In *Central Coimbatore* coupes were sold standing and the public obtained timber and bamboos from contractors. The fuel depot at Coimbatore was transferred to private agency at the end of the year. Permits were issued to glean, by head loads, brushwood from coupes in *Kollegal* and *North* and *Central Coimbatore*; the removal of fodder and thatch grass from reserved forests at three pies per head load was also allowed in the last district. In *South Coimbatore* two fuel coupes were set apart, from which small timber and fuel were sold at fixed rates, but the local people did not avail themselves freely of the opportunity. Brake-poles were also sold on the road side to cartmen frequenting the ghat roads in *North* and *South Coimbatore*.

57. *Grant of cowles for the formation of Casuarina plantations in sandy areas.*—No cowles were granted as there is no demand for them in the circle.

Rules under the Forest Act.

58. (*a*) *Timber Transit Rules.*—The rules are reported to have worked satisfactorily in *South Canara*, *North Malabar*, *Kollegal* and *Central* and *South Coimbatore*; in *North Coimbatore* they do not sufficiently safeguard the interests of Government and are a possible source of petty harassment to the people. The rules so far as they are applicable to the registration of property marks were in force in *South Malabar*.

(*b*) *Rules under section 26 of the Forest Act.*—The rules worked satisfactorily and the privileges conferred by them were availed of by the people. In *Kollegal* a few complaints of the lower subordinates interfering with the people availing themselves of the privileges were received and steps were taken to put a stop to such interference. A short plan of operations was drawn up for the management of unreserved lands near Andiyur in *North Coimbatore* by a village panchayat. The area of unserved lands under the control of the Forest Department was the same as last year. The lands containing sandal growth in *North Coimbatore* were also managed by the department.

(*c*) *Other rules.*—The sandalwood transit rules in *Kollegal* and *North Coimbatore* worked satisfactorily.

59. *Hill tribes.*—In *North Malabar*, 75 acres were granted free to Kurichiyars for ponam cultivation. The services of Kurumbers were engaged in the *Nilgiris* for several works and the result was the complete absence of fires in the Mudumalai and Benne forests during an exceptionally severe fire season. The Sholagar settlements in *Kollegal* and *North Coimbatore* continued to supply labour for forest works. Rewards amounting to Rs. 50 were granted to Sholagars in *North Coimbatore* for successful fire protection. In *Central Coimbatore* free leases covering 127 acres were continued to Irulars who supplied all the labour required.

60. *Cultivation in reserved forests.*—In *South Canara*, tenant-at-will leases covering 25 acres were granted on an annual rent of Rs. 36. Several leases aggregating 714 acres were continued in *North Malabar* for ponam, wet and cardamom cultivations and the annual rent collected was Rs. 1,587. The lease of 4 acres for paddy cultivation in old Amarampalam reserve in *South Malabar* and the grant of about 150 acres for cultivation, free of rent, to Irulars and Kurumbers in the *Nilgiris* were renewed. In *Kollegal* and *North Coimbatore*, Sholagars continued to cultivate lands some free and some on payment of rent; the lease for rubber cultivation in the former district continued and 35 leases covering an extent of about 139 acres found

in excess of the area admitted at settlement were granted in the latter district. In *Central Coimbatore*, the Quilon Fibre Company had the lease of Arachalur plain reserve (1,686 acres) free of rent for aloe cultivation. In *South Coimbatore* further grants of about 8,600 acres on the Anamalais were made to planters for coffee and rubber cultivation and applications for about 3,300 acres were under consideration. Twenty five acres of wet and 50 acres of dry lands in Thalinji reserve were leased to Pulliahs for cultivation.

Live and Dead Stock.

61. (*a*) *Elephants.*—The 107 elephants at the commencement of the year were increased by 19 captures and 3 births, to 129, of which 8 died and one was sold leaving 120 at the close of the year. Of the deaths, five were calves below five years old (3 born and 2 captured) and two were grown up elephants aged 20 and 9, captured in 1910 and 1911; there was only one death among old elephants due to old age. The condition of the elephants is reported to be good. Mr. P. J. Kerr, Superintendent, Civil Veterinary Department, inspected the elephants at Nilambur and those at Teppacadu, including the nursery, and found their condition good. Rewards in the shape of grain, silver bangles and money were granted to those mahouts, the elephants in whose charge were not on the sick list for more than 3 days at a time or more than 12 days in the year.

(*b*) *Bullocks and buffaloes.*—There were 157 bullocks at the close of the year. The casualties during the year were 6 deaths from old age and one from snake bite, 3 killed by tigers, 8 shot, being unserviceable, and 12 sold. Of the 54 buffaloes at the beginning of the year, two died, one was condemned and sold and two were killed by tigers thus leaving a balance of 49.

(*c*) *Special Veterinary Inspector.*—Mr. F. X. Mascarenhas visited repeatedly all the stations where there is live stock. Mr. Kerr on his inspection remarked of the Inspector's work. "I was very pleased with the way Mr. Mascarenhas has carried on the veterinary work among the elephants under his charge and much struck by the keen interest and knowledge he shows of his work. He accompanied me for a fortnight and answered my numberless questions on all kinds of elephant matters quite readily and could back up his answers from his experience whenever I was sceptical. Of the value of his work, the Forest Office records bear witness and I think he has done exceedingly well under most arduous circumstances". The Conservator cordially endorses this opinion.

(*d*) *Inventory of valuable stock.*—Stock registers are reported to have been maintained and verified at inspections in all districts except *Kollegal* in which no mention is made of them.

62. *Rain gauges.*—An additional gauge was located during the year at Teppacadu in the *Nilgiris*. Appendix F shows the results of readings recorded during the year. The readings made in *South Canara* and *Central Coimbatore* continued to be unreliable.

63. *The Gass Forest Museum at Coimbatore.*—The Museum was open to the public and 4,464 persons visited it against 7,308 in the previous year; the decrease was due to prevalence of plague in the first half of the year. One hundred and twenty specimens were contributed during the year. Owing to inadequate accommodation, specimens were not called for and several of those already received have not yet found a place in the Museum.

Mr. C. E. C. Fischer made a further contribution to the herbarium and all his specimens have been verified at the Royal Botanical Gardens, Calcutta. The herbarium, though small, forms the nucleus of an authentic collection of the local flora.

The museum garden was maintained as usual but the failure of the monsoon affected it. Several seedlings were raised in the nursery for planting in the Forest College site. Rs. 109 were realized by sale of flowers, plants and fruits.

64. *Suits.*—There were no suits worth mentioning.

Coimbatore,
21*st September* 1912.

F. A. LODGE,
Conservator of Forests, Western Circle.

TABLE OF CONTENTS.

	PAGE
Appendix A.—District areas and forest reserves	i & ii
Do. B.—Particulars of balance of lands under settlement	iii to v
Do. C.—Statement showing the area of reserved forests for which final maps have been prepared	vi
Do. D.—Abstract of fires	vii & viii
Do. E.—Comparative settlement of impounded cattle	ix
Area of reserved forests and reserved lands (No. 65)	x to xxi
Progress made in, and the expenditure incurred on, forest settlements (No. 66)	xxii to xxvii
Record of demarcation and maintenance of boundaries (No. 67)	xxviii & xxix
Forest areas surveyed and under survey (No. 68)	xxx to xxxiii
Progress made in working plans (No. 69)	xxxiv & xxxv
Communications and buildings (No. 70)	xxxvi to xlix
Register of breaches of Forest Rules (No. 71)	l to lxi
Appendix to Form No. 71	lxii to lxv
Area of forest tracts protected from fire (No. 72)	lxvi to lxix
Areas open and closed to grazing (No. 73)	lxx & lxxi
Statement of grazing in reserved forests and reserved lands (No. 74) ...	lxxii to lxxvi
Area of plantations, taungya and cultural operations (No. 75)	lxxvii to lxxix
Statement showing the outturn of timber and firewood and agency of exploitation (No. 76)	lxxx to xcvii
Outturn of minor forest produce (No. 77)	xcviii to xcix
Account of timber, etc., in depots and sold locally (No. 78)	c to ciii
Abstract showing the value of timber and other produce at depots (No. 79)	civ to cvii
Summary of revenue and expenditure (No. 80)	cviii to cxvii
Abstract of the above prepared in the Board's office	cxviii & cxix
Outstandings and liabilities on account of contractors and disbursers (No. 81)	cxx
Revenue received and outstandings on account of revenue (No. 82)	cxxi
Statement of financial results (No. 83)	cxxii
Return of elephants (No. 84)	cxxiii & cxxiv
Abstract of value of stores, tools and plant (No. 85)	cxxv

BOMBAY BRANCH OF THE ... SOCIETY

APPENDICES.

APPENDIX A.—District areas and Forest reserves (1911–1912).

District.	(a) Total area excluding feudatory and tributary states.	(b) Area excluding zamindari, whole inam villages and minor inams in ryotwari tracts.	(b) Occupied area.	Particulars of remaining area (columns 3—4).		
				(b) Unoccupied cultivable, uncultivable and forest areas.	(a) Areas for which records are not available.	Total of columns 5 and 6.
1	2	3	4	5	6	7
Northern Circle.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.
Ganjām	5,356,224	1,609,462	415,082	708,825	486,055	1,194,380
Vizagapatam	11,022,478	847,213	182,570	664,643	..	664,643
Gōdāvari	3,980,698	2,186,185	590,224	1,592,469	3,492	1,595,961
Kistna	3,780,254	1,567,904	1,003,498	551,520	12,886	564,406
Kurnool	4,808,960	4,100,605	1,314,375	2,786,230	..	2,786,230
Total ..	28,948,614	10,311,369	3,505,749	6,303,187	502,433	6,805,620
Central Circle.						
Bellary	3,656,339	2,983,587	1,959,132	1,024,455	..	1,024,455
Anantapur	4,299,968	3,714,191	1,783,319	1,930,872	..	1,930,872
Guntūr	3,670,687	2,914,333	1,848,836	1,065,497	..	1,065,497
Cuddapah	3,763,220	3,220,576	963,372	2,257,204	..	2,257,204
Nellore	5,103,053	2,326,957	945,542	1,381,415	..	1,381,415
Chingleput	1,965,283	1,287,006	674,571	612,435	..	612,435
Chittoor	3,631,782	1,757,114	457,357	1,299,757	..	1,299,757
Total ..	26,090,332	18,203,764	8,632,129	9,571,635	..	9,571,635
Southern Circle.						
North Arcot	3,033,517	2,549,946	1,078,164	1,471,782	..	1,471,782
South Arcot	2,693,229	2,413,278	1,523,496	889,782	..	889,782
Salem	4,818,982	3,576,091	1,505,337	2,070,754	..	2,070,754
Trichinopoly	3,158,521	2,252,839	1,542,490	710,349	..	710,349
Tanjore	2,375,386	1,583,774	1,145,933	437,841	..	437,841
Madura	3,146,485	2,075,835	1,154,956	920,879	..	920,879
Rāmnād	3,159,226	447,166	264,987	182,179	..	182,179
Tinnevelly	2,744,237	1,796,590	1,206,568	590,022	..	590,022
Total ..	25,129,583	16,695,519	9,421,931	7,273,588	..	7,273,588
Western Circle.						
South Canara *	2,573,414	2,573,414	780,937	1,790,423	2,054	1,792,477
Malabar *	3,703,711	3,690,181	1,307,907	2,382,274	..	2,382,274
The Nilgiris	646,061	* 651,212	* 193,918	457,294	..	457,294
Coimbatore	4,989,867	4,557,986	2,512,163	2,045,823	..	2,045,823
Total ..	11,913,053	11,472,793	4,794,925	6,675,814	2,054	6,677,868
Graud Total ..	92,081,582	56,683,445	26,354,734	29,824,224	504,487	30,328,711

* Revised figures furnished by the Collector.

(a) Area by professional survey. (b) Area according to village maps.

Appendix A.—District areas and Forest reserves (1911–1912)—*cont.*

District.	Reserved forests and reserved lands.			Percentage of column 10 to column 8.	Percentage of column 10 to column 7.
	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves (columns 8 and 9).		
	8	9	10	11	12
Northern Circle.					
Ganjam	360,871	47,741	408,612	25·39	34·21
Vizagapatam	193,487	6,860	200,347	23·65	30·14
Gödávari	534,438	47,955	582,393	26·64	36·49
Kistna	178,231	2,801	181,032	11·55	(*a*)32·07
Kurnool	1,687,373	76	1,687,449	41·15	60·56
Total ..	2,954,400	105,433	3,059,833	29·67	44·93
Central Circle.					
Bellary	400,547	40,985	441,532	14·80	43·10
Anantapur	480,472	7,012	487,484	13·13	25·25
Guntúr	521,247	..	521,247	17·88	48·93
Cuddapah	1,163,437	620	1,164,057	36·14	51·57
Nellore	474,328	..	474,328	20·38	34·34
Chingleput	133,988	10	133,998	10·41	21·88
Chittoor	537,405	14	537,419	30·58	41·35
Total ..	3,711,424	48,641	3,760,065	20·65	39·28
Southern Circle.					
North Arcot	796,017	8	796,025	31·22	54·09
South Arcot	221,126	..	221,126	9·16	24·85
Salem	878,929	33,099	912,028	25·50	44·04
Trichinopoly	227,736	2,146	229,882	5·99	20·02
Tanjore					
Madura	426,128	37	426,165	20·53	46·27
Rámnád	46,497	260	46,757	10·45	25·66
Tinnevelly	227,150	532	227,682	12·67	38·59
Total ..	2,823,583	36,082	2,859,665	17·13	39·32
Western Circle.					
South Canara	509,853	62,615	572,468	22·25	31·94
Malabar	293,883	65,575	359,458	9·74	15·09
The Nilgiris	291,567	52,530	344 097	52·84	75·25
Coimbatore	1,319,871	165,612	1,485,483	32·59	72·61
Total ..	2,415,174	346,332	2,761,506	24·07	41·35
Grand Total ..	11,904,581	536,488	12,441,069	21·95	41·02

(*a*) Corrected in the Board's office.

APPENDIX B.—Particulars of balance of lands under Settlement.

District.	Forest settlement.					
	Total number and area of blocks under settlement up to the end of 1911–1912.		Total number and area of blocks constituted finally as reserved forests up to the end of 1911-1912.		Balance at the end of 1911–1912.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjam	62	639	57	564	5	75
Vizagapatam	57	(c) 313	54	302	3	11
Godavari, Upper	29	428	29	428	..	..
Do. Lower	44	482	43	407	1	75
Kistna	75	(c) 278	75	278	..	..
Kurnool, East	27	1,001	27	1,001	..	..
Do. South	35	778	33	778	2	(b) ..
Do. West	43	858	42	858	1	(a) ..
Total ..	372	4,777	360	4,616	12	161
Central Circle.						
Bellary	169	(d) 627	168	626	1	1
Anantapur	139	(e) 762	133	751	6	11
Guntur	180	814	180	814	..	..
Cuddapah; North	79	734	79	734	..	..
Do. East	67	1,083	67	1,083	..	..
Nellore	(f) 227	(f) 741	227	741	..	..
Chingleput	(f) 197	(f) 209	197	209	(h) ..	(g)
Chittoor	125	841	125	841	(h) ..	(g)
Total ..	1,183	5,811	1,176	5,799	7	12
Southern Circle.						
North Vellore	103	499	101	499	2	(g)
South do.	75	745	75	745	..	..
South Arcot	129	345	129	345	..	..
North Salem	78	838	75	792	3	46
South do.	86	587	84	581	2	6
Trichinopoly	155	359	152	356	3	3
Madura	153	666	150	666	3	(g)
Ramnad	22	73	13	73	9	(g)
Tinnevelly	85	356	70	355	15	1
Total ..	886	4,468	849	4,412	37	56
Western Circle.						
South Canara	180	797	176	797	4	(g)
Malabar, North	29	262	29	262	..	..
Do. South	6	143	5	108	1	35
The Nilgiris	436	478	436	478	..	..
Kollegal	13	705	10	447	3	258
Coimbatore, North	22	921	19	921	3	(g)
Do. Central	46	355	41	307	5	48
Do. South	16	454	15	454	1	(g)
Total ..	748	4,115	731	3,774	17	341
Grand Total ..	3,189	19,171	3,116	18,601	73	570

(a) Under renotification.
(b) Less than half square mile.
(c) Excludes reserved lands under section 26 (Vizagapatam, less than half a square mile, and Kistna, 4 square miles).
(d) Includes 63 square miles of Sandur leased forests.
(e) Revised figure.
(f) Transfer of Ugumudy reserve.
(g) Below one square mile.
(h) Enclosed within reserved forests.

Appendix B.—Particulars of balance of lands under Settlement—*cont.*

District.	Settled and reported on.								Settled but not reported on.		Settlement proceeding.	
	Notified under section 16 during 1911-1912, but reservation effected only after 30th June 1912.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with the Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.					
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ.MLS.		SQ.MLS.		SQ. MLS.
Ganjām	..	..	..	..	..	..	..	..	..	..	5	75
Vizagapatam ..	..	..	..	..	..	..	..	..	2	1	1	10
Gōdāvari, Upper ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..		..	..	..	1	75	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	2	(*b*)
Do. West ..	..	..	..	..	..	..	..	..	..	..	1	(*a*)
Total ..	..	..	..	..	..	..	..	..	3	76	9	85
Central Circle.												
Bellary	..	..	..	..	..	..	..	..	..	..	1	1
Anantapur ..	..	..	3	10	..	..	3	10	..	..	3	1
Guntūr	..	..	..	..	..	..	..	..	..	..	..	..
Cuddapah, North..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	(*c*) ..	(*b*).
Chittoor	..	..	..	..	..	..	..	..	(*c*) ..	(*b*) ..	(*c*) ..	(*b*).
Total ..	..	..	3	10	..	..	3	10	..	(*b*) ..	4	2
Southern Circle.												
North Vellore ..	..	..	..	..	..	..	..	..	..	..	2	(*b*)
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..
North Salem ..	..	..	..	..	..	..	..	..	2	46	1	(*b*)
South do.	..	..	..	..	..	..	..	..	..	..	2	6
Trichinopoly ..	..	..	..	..	1	1	1	1	..	..	2	2
Madura	..	..	1	(*b*)	..	..	1	(*b*)	2	(*b*)	..	..
Rāmnād	3	(*b*)	1	(*b*)	..	..	4	(*b*)	..	..	5	(*b*)
Tinnevelly ..	..	..	..	..	2	1	2	1	11	(*b*)	2	(*b*)
Total ..	3	(*b*)	2	(*b*)	3	2	8	2	15	46	14	8
Western Circle.												
South Canara ..	..	..	1	(*b*)	..	..	1	(*b*)	..	..	3	(*b*)*
Malabar, South ..	..	..	..	..	..	..	..	..	..	..	1	35
Kollegal	..	..	..	..	1	246	1	246	1	12	1	(*b*)*
Coimbatore, North.	..	..	..	..	..	..	..	..	..	..	3	(*b*)*
Do. Central.		47	1	(*b*)	..	..	4	47	..	..	1	(*b*)*
Do. South.	..	..	..	..	..	..	..	..	..	..	1	(*b*)*
Total ..	3	47	2	(*b*)	1	246	6	293	1	12	10	36
Grand Total ..	6	47	7	10	4	248	17	305	19	134	37	131

* Aggregates one square mile.

(*a*) Under renotification. (*b*) Below one square mile. (*c*) Enclosed within reserved forests.

Appendix B.—Particulars of balance of lands under Settlement—*cont.*

District.	Of lands notified under section 4.																							
	1894-95.		1900-01.		1901-02.		1902-03.		1903-04.		1904-05.		1905-06.		1906-07.		1907-08.		1908-09.		1909-10.		1910-11.		1911-12.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Northern Circle.				S. M.		M.S.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. N.
Ganjām	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	75
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	10	2	1
Gōdāvari, Upper	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..	1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	(a)
Do. West	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	..	..
Total	..	..	..	..	1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	10	9	76
Central Circle.																										
Bellary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
Anantapur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	10	3	1	..	..
Guntūr	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cuddapah, North	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(b)	(a)
Chittoor	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	10	3	1	1	(a)
Southern Circle.																										
North Vellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	1	(a)	..	..
South Vellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Arcot	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Salem	..	..	1	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	1	(a)
South Salem	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	6	..	..	..	..
Trichinopoly	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	2	..	..	..	..
Madura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	2	(a)
Rāmnād	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	(a)	5	(a)	..	..
Tinnevelly	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	1	(a)	7	1	6	(a)
Total	..	..	1	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	10	8	15	1	9	(a)
Western Circle.																										
South Canara	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	(a)
Malabar, South	..	..	..	..	..	..	..	..	1	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kollegal	1	246	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	..	..	1	(a)	..	..	..	..
Coimbatore, North	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)	..	..	..	..	..	..	..	..	2	(a)
Do. Central	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	47	..	..	..	..	2	(a)	1	(a)
Do. South	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(a)
Total	..	..	..	..	..	..	..	..	1	35	..	..	..	..	1	(a)	3	59	..	..	1	(a)	2	(a)	8	1
Grand Total	1	246	1	46	1	75	..	..	1	35	..	..	..	..	1	(a)	3	59	2	1	14	18	22	12	27	77

(a) Below one square mile. (b) Enclosed within reserved forest.

APPENDIX C.—Statement showing the area of reserved forests for which final maps have been prepared, 1911–1912.

District.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.	Remarks.
Northern Circle.	SQ. MILES.	SQ. MILES.	
Ganjām	564	564	
Vizagapatam	302	302	
Gōdāvari, Upper	428	428	
Do. Lower	407	407	
Kistna	278	153	
Kurnool, East	1,001	998	
Do. South	778	641	
Do. West	858	598	
Total ..	4,616	4,091	
Central Circle.			
Bellary	626	563	
Anantapur	751	751	
Guntūr	814	191	
Cuddapah, North	734	734	
Do. East	1,083	1,083	
Nellore	741	741	
Chingleput	209	209	
Chittoor	841	781	
Total ..	5,799	5,053	
Southern Circle.			
North Vellore	499	499	
South do.	745	578 *	* The Collector now reports that final maps are due for 167·328 square miles.
South Arcot	345	345	
North Salem	792	792 †46	† Area of reserved lands pending notification under section 16.
South do.	581	581	
Trichinopoly	356	‡347	‡ There are settlement maps for the remaining 9 square miles.
Madura	666	608	
Rāmnād	73	73	
Tinnevelly	355	347	
Total ..	4,412	4,216	
Western Circle.			
South Canara	797	678	
Malabar, North	262	..	
Do. South	108	..	
The Nilgiris	478	86	
Kollegal	447	446	
Coimbatore, North	921	919	
Do. Central	307	252	
Do. South	454	454	
Total ..	3,774	2,835	
Grand Total ..	18,601	16,195	

Appendix D.

Division.	A. Fires caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire lines.		C. Fires beginning inside the reserves or fire-traced areas. Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		By villagers, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjām	3	80	..	..	..	..	..	..	..	..	..	..
Vizagapatam	..	..	5	2,265	..	..	18	* 63,258	..	..	..	..
Upper Gōdāvari	3	86	6	35,034	..	..	2	6,200	..	..	..	..
Lower Gōdāvari	1	40	10	1,350	8	5,660	23	1,602	..	..	..	..
Kistna	..	..	8	835	1	70	..	..	..	..	..	..
Kurnool East	..	..	2	3,420	..	..	..	..	..	..	..	..
Do. South	5	1,651	4	27,998	..	..	1	10	..	..	..	..
Do. West	5	222	13	72,770	1	100	14	29,061	1	5	..	..
Total	17	2,079	48	1,43,672	10	5,830	58	1,00,131	1	5	..	..
Central Circle.												
Bellary	2	292	5	7,890	..	..	2	3,428	..	..	..	..
Anantapur	6	1,051	..	..	..	..	..	..	1	(a)	1	3
Guntūr	..	..	1	1	..	..	27	588	..	..	..	..
Cuddapah, North	3	36	11	26,056	2	650	2	130	..	..	..	..
Do. East	..	.	8	13,198	4	1,380	8	1,386	..	..	..	..
Nellore	..	..	2	76	..	..	..	..	..	..	..	..
Chingleput	2	20	..	..	..	..	6	(a)	..	..	..	..
Chittoor	1	(a)..	8	1,064	1	3	6	1,317	..	..	..	..
Total	14	1,399	35	48,285	7	2,033	51	6,849	1	(a)	1	3
Southern Circle.												
North Vellore	3	80	4	215	1	20	9	467	..	..	..	..
South do.	2	50	..	..	..	..	4	170	..	..	..	..
South Arcot	..	..	1	20	..	..	4	26	..	..	..	..
North Salem	..	..	..	..	..	..	4	201	..	..	..	..
South do.	..	..	..	..	..	..	5	437	..	..	..	..
Trichinopoly	..	..	..	..	..	..	..	..	..	..	..	..
Madura	..	..	23	1,564	..	..	..	..	..	..	..	..
Rāmnād	..	..	..	..	1	20	..	..	..	..	..	..
Tinnevelly	1	5	3	95	..	..	2	2	..	..	1	6
Total	6	135	31	1,894	2	40	28	1,303	..	..	1	6
Western Circle.												
South Canara	12	54	37	1,035	2	40	104	2,859	..	..	..	..
Malabar, North	1	63	9	14,170	..	..	5	313	..	..	..	..
Do South †	..	..	6	63	1	16	1	48	..	..	..	..
The Nilgiris *	1	5	..	..	..	..	5	105	..	..	..	..
Kollegal	..	..	2	3,842	2	310	6	1,365	..	..	..	..
Coimbatore, North	4	35	4	86	1	25	20	24,031	..	..	..	..
Do. Central	2	38	2	2,340	3	250	7	3,232	1	3	..	..
Do. South	..	..	2	320	1	600	19	1,031	..	..	..	..
Total	20	195	63	21,856	10	1,241	167	32,984	1	3	..	..
Grand Total	57	3,808	177	2,15,707	29	9,144	304	1,41.267	3	8	2	9
Grand Total for 1910–1911	51	5,399	161	34,080	17	28,423	296	88,084	10	1,639	6	333

(a) Less than one acre.

* Collector reports that number of fires for 11,400 acres is not ascertainable.

† Includes the number of fires in the areas not under special protection.

Appendix D—*cont.*

Division.	C. Fires beginning inside the reserves or fire-traced areas—*cont.*								Causes unknown.		Total of A, B and C and causes unknown.	
	By intentional firing.											
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.					
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												
Ganjām	..	..	..	..	1	12	1	12	12	667	16	759
Vizagapatam	..	..	..	..	..	..	18	63,258	7	16,803	30	82,326
Upper Gōdāvari	..	..	..	..	..	..	2	6,200	15	12,041	26	53,361
Lower Gōdāvari	..	..	3	598	..	..	34	7,860	37	6,696	82	15,946
Kistna	..	..	1	1,000	..	..	2	1,070	1	530	11	2,435
Kurnool East	..	..	..	..	..	..	..	..	10	34,538	12	37,958
Do. South	2	1,882	..	..	6	17,780	9	19,672	17	38,106	35	87,427
Do. West	1	281	9	2,720	9	14,945	35	47,112	34	90,974	87	211,078
Total for 1911-1912	3	2,163	13	4,318	16	32,737	101	145,184	133	200,355	299	491,290
Central Circle.												
Bellary	..	..	..	..	..	..	2	3,428	3	2,562	12	14,172
Anantapur	..	..	1	15	2	275	5	293	149	49,988	160	51,332
Guntūr	..	..	..	..	..	..	27	588	..	..	28	589
Cuddapah, North	54	20,906	1	3,748	8	14,254	67	39,688	7	1,680	88	67,460
Do. East	33	12,954	..	..	10	5,760	55	21,480	44	42,055	107	76,733
Nellore	2	110	..	..	2	505	4	615	..	..	6	691
Chingleput	..	..	..	..	4	20	10	20	..	..	12	40
Chittoor	94	17,117	..	..	17	1,412	118	19,849	8	1,569	135	22,482
Total	183	51,087	2	3,763	43	22,226	288	85,961	211	97,854	548	233,499
Southern Circle.												
North Vellore	9	668	..	..	6	497	25	1,652	46	3,347	78	5,294
South do.	25	2,332	1	125	13	1,247	43	3,874	31	2,260	76	6,184
South Arcot	1	30	..	..	..	..	5	56	1	4	7	80
North Salem	1	794	..	..	..	..	5	995	16	2,557	21	3,552
South do.	2	79	..	..	2	53	9	569	49	1,621	58	2,190
Trichinopoly	..	..	..	..	..	..	..	..	1	20	1	20
Madura	8	1,705	..	..	..	..	8	1,705	57	4,779	88	8,048
Rāmnād	..	..	4	2,730	..	..	5	2,750	4	980	9	3,730
Tinnevelly	4	1,242	3	135	1	6	11	1,391	3	2	18	1,493
Total	50	6,850	8	2,990	22	1,803	111	12,992	208	15,570	356	30,591
Western Circle.												
South Canara	7	673	11	220	28	1,749	152	5,541	30	629	231	7,259
Malabar, North	..	..	..	..	1	99	6	412	..	..	16	14,645
Do. South *	..	..	..	..	..	..	2	64	3	120	11	247
The Nilgiris *	8	2,600	..	..	8	1,972	21	4,677	18	747	40	5,429
Kollegal	18	35,021	..	..	5	1,930	31	38,626	9	3,744	42	46,212
Coimbatore, North	16	49,410	..	..	4	294	41	73,760	18	25,013	67	98,894
Do. Central	6	402	..	..	4	47	21	3,934	26	1,143	52	7,455
Do. South	2	1,002	1	45	2	49	25	2,727	4	76	31	3,123
Total	57	89,108	12	265	52	6,140	299	129,741	108	1472	490	183,264
Grand Total	293	149,208	35	11,336	133	62,906	799	73,878	660	345,251	1,693	938,644
Grand Total for 1910-1911	260	61,862	30	6,007	136	27,00	755	213,354	605	172,066	1,572	424,899

* Includes the number of fires in the areas not under special protection.

APPENDIX E.—Comparative statement of impounded cattle.

District.	From open forests.		From closed forests.				Total.		Average for three years ending 1911–1912.
			Holding permits for open forests.	Having no permits.	Holding permits for open forests.	Having no permits.			
	1910–1911.	1911–1912.	1910–1911.		1911–1912.		1910–1911.	1911–1912.	
Northern Circle.									
Ganjām	1,958	3,273	1,439	564	..	240	3,961	3,513	3,791
Vizagapatam ..	605	1,034	..	2,136	..	1,209	2,741	2,243	2,536
Gōdāvari, Upper ..	..	329	..	..	..	379	..	708	240
Do. Lower ..	673	549	..	600	..	704	1,233	1,253	1,258
Kistna	2,461	2,881	361	1,020	274	897	3,842	4,052	3,810
Kurnool, East ..	2,738	7,201	..	..	..	..	2,738	7,201	3,313
Do. South ..	7,440	6,374	..	1,035	162	681	8,475	7,217	8,295
Do. West ..	12,810	8,904	35	3,287	..	1,792	16,132	10,696	13,462
Total ..	28,645	30,545	1,835	8,642	436	5,902	39,122	36,883	36,705
Central Circle.									
Bellary ..	7,388	9,773	471	1,278	1,625	3,812	9,137	15,210	16,755
Anantapur ..	5,867	7,430	21	1,240	355	1,280	7,128	9,065	9,759
Guntūr ..	10,485	11,204	3,412	14,748	4,484	10,703	28,645	26,391	21,635
Cuddapah, North.	5,673	3,771	192	3,949	170	3,210	9,814	7,151	6,617
Do. East ..	1,585	2,616	2,280	1,012	84	2,922	4,877	5,622	6,415
Nellore ..	13,385	11,045	1,098	5,005	1,350	5,392	19,488	17,787	19,623
Chingleput ..	2,233	2,714	485	1,854	1,055	839	4,572	4,608	6,110
Chittoor	7,770	5,427	97	2,313	268	4,184	10,180	9,879	11,311
Total ..	54,386	53,980	8,056	31,399	9,391	32,342	93,841	95,713	98,225
Southern Circle.									
North Vellore ..	8,646	7,044	..	2,958	..	2,395	11,604	9,439	3,750
South do. ..	4,702	5,851	414	1,909	28	805	7,025	6,684	7,103
South Arcot ..	11,755	12,795	53	686	298	1,114	12,494	14,207	12,315
North Salem ..	1,166	2,269	138	526	315	1,331	1,830	3,915	2,831
South do. ..	1,566	1,161	22	1,632	330	978	3,220	2,469	3,291
Trichinopoly ..	6,200	7,008	..	81	560	..	6,281	7,568	7,281
Madura	5,937	3,340	420	3,336	243	3,986	9,693	7,569	8,747
Rāmnād	857	347	553	910	..	805	2,320	1,152	6,504
Tinnevelly ..	1,164	1,300	435	3,383	338	1,493	4,982	3,131	
Total ..	41,993	41,115	2,035	15,421	2,112	12,907	59,449	56,134	51,822
Western Circle.									
South Canara ..	775	1,053	14	69	..	37	858	1,090	993
Malabar, North ..	11	17	..	67	3	240	78	260	54
Do. South ..	..	..	..	114	..	210	114	210	167
The Nilgiris ..	382	258	96	135	40	160	663	458	547
Kollegal ..	2,429	1,984	56	66	487	675	2,551	3,146	2,501
Coimbatore, North.	2,464	2,822	5	26	..	484	2,495	3,306	4,310
Do. Central.	488	595	..	1,778	..	1,547	2,266	2,142	2,828
Do. South.	436	537	..	220	..	282	656	819	587
Total ..	6,985	7,266	171	2,525	530	3,635	9,681	11,431	11,987
Grand Total ..	1,32,009	1,32,906	12,097	57,987	12,469	54,786	202,093	200,161	198,739

ANNUAL FORM No. 65.

Forest Department, Madras Presidency.

AREA of reserved forests and reserved lands during 1911–1912.

District.	Area of reserved forests.					
	Area on 1st July 1911.		Added during the year.	Excluded during the year.	Area on 30th June 1912.	
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
1	2	3	4	5	6	7
Northern Circle.						
Ganjam	383,067	599	8,970	31,166	360,871	564
Vizagapatam	193,487	302	..	..	193,487	302
Godavari, Upper	273,746	428	..	..	273,746	428
Do. Lower	260,692	407	..	..	260,692	407
Kistna	178,231	278	..	..	178,231	278
Kurnool, East	641,770	1,003	5,249	6,580	640,439	1,001
Do. South	495,608	774	2,280	228	497,660	778
Do. West	549,274	858	..	..	549,274	858
Total ..	2,975,875	4,649	16,499	37,974	2,954,400	4,616
Central Circle.						
Bellary	399,447	624	1,100	..	400,547	626
Anantapur	481,608	753	128	1,264	480,472	751
Guntur	521,239	814	8	..	521,247	814
Cuddapah, North	470,073	734	..	..	470,073	734
Do. East	693,396	1,083	..	(a) 32	693,364	1,083
Nellore	471,677	737	2,651	..	474,328	741
Chingleput	136,575	213	64	2,651	133,988	209
Chittoor	536,561	839	856	12	537,405	841
Total ..	3,710,576	5,797	4,807	3,959	3,711,424	5,799
Southern Circle.						
North Vellore	319,170	499	..	..	319,170	499
South do.	476,847	745	..	..	476,847	745
South Arcot	221,167	346	..	41	221,126	345
North Salem	507,162	792	..	..	507,162	792
South do.	371,767	581	..	..	371,767	581
Trichinopoly	227,714	356	* 22	..	227,736	356
Madura	426,128	666	..	..	426,128	666
Ramnad	46,484	73	13	..	46,497	73
Tinnevelly	226,819	354	331	(b)	227,150	355
Total ..	2,823,258	4,412	366	41	2,823,583	4,412
Western Circle.						
South Canara	508,677	795	1,678	502	509,853	797
Malabar, North	166,892	261	473	4	167,361	262
Do. South	69,263	108	..	..	69,263	108
The Nilgiris	306,161	478	18	57	306,122	478
Kollegal	286,193	447	..	..	286,193	447
Coimbatore, North	589,375	921	23	4	589,394	921
Do. Central	196,600	307	..	240	196,360	307
Do. South	290,628	454	..	..	290,628	454
Total ..	2,413,789	3,771	2,192	807	2,415,174	3,774
Grand total ..	11,923,498	18,629	23,864	42,781	11,904,581	18,601

* Excess due to the correct area of the Namakkal range according to the sanctioned working plan.

(a) Due to correct computation of areas at the time of resurvey. (b) Less than an acre (17 cents).

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Area of reserved lands.						Total area of reserved forests and reserved lands.
	Area on 1st July 1911.		Added during the year.	Excluded during the year.	Area on 30th June 1912.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	8	9	10	11	12	13	14
Northern Circle.							SQ. MLS.
Ganjām	72	..	47,741	72	47,741	75	639
Vizagapatam	6,515	10	345	..	6,860	11	313
Gōdāvari, Upper	345,600	540	..	345,600	..	..	428
Do. Lower	47,955	75	..	..	47,955	75	482
Kistna	12,229	19	..	9,428	2,801	4	282
Kurnool, East	..	..	..	..	.	..	1,001
Do. South	..	..	70	..	70	..	778
Do. West	6	..	..	..	6	..	858
Total ..	412,377	644	48,156	355,100	105,433	165	4,781
Central Circle.							
Bellary	41,867	66	218	1,100	40,985	64	690
Anantapur	49,074	77	..	42,062	7,012	11	762
Guntūr	8	..	..	8	..	..	814
Cuddappah, North	620	1	..	..	620	1	735
Do. East	..	..	..	..	..	..	1,083
Nellore	..	..	..	..	..	..	741
Chingleput	64	..	10	64	10	..	209
Chittoor	856	1	14	856	14	..	841
Total ..	92,489	145	242	44,090	48,641	76	5,875
Southern Circle.							
North Vellore	413	1	..	* 405	8	..	499
South do						..	745
South Arcot	..	..	..	..	..	..	345
North Salem	29,300	46	9	..	29,309	46	838
South do.	3,790	6	..	..	3,790	6	587
Trichinopoly	2,504	4	..	† 358	2,146	3	859
Madura	1	..	36	..	37	..	666
Rāmnad	274	..	..	14	260	..	73
Tinnevelly	798	1	65	331	532	1	356
Total ..	37,080	58	110	1,108	36,082	56	4,468
Western Circle.							
Canara, South	70,310	110	13	7,708	62,615	98	895
Malabar, North	495	1	..	473	22	..	262
Do South	35,223	55	..	..	35,223	55	168
The Nilgiris	52,548	82	..	18	52,530	82	560
Kollegal	165,063	258	..	..	165,063	258	705
Coimbatore, North	271	..	30	23	278	..	921
Do. Central	30,454	48	233	102	30,585	48	355
Do. South	..	..	16	..	16	..	454
Total ..	354,364	554	292	8,324	346,332	541	4,315
Grand Total ..	896,310	1,401	48,800	408,622	536,488	838	19,439

* 405 acres (327 in North Vellore and 78 in South Vellore), represents the area of unclassed forests not notified under section 4 and consequently excluded in this year's return.

† Represents the erroneous addition, in the Central Circle office in last year's return, of 358 acres of Vengur Padugai lying in the Tanjore district to the total area of reserved lands which included the entire area of Vengur Padugai.

Area of reserved forests and reserved lands during 1911–1912.

District.	Name of forest.	Area on 1st July 1911. Acres.	Area on 1st July 1911. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1912. Acres.	Area on 30th June 1912. Equivalent in square miles.	Number and date of notification of addition or transfer.
				NORTHERN CIRCLE.				
				Reserved forests.				
Ganjam.	Area notified in previous years.	383,067	599	..	..	383·067	599 or 59,853	
	Added—Chandragiri extension.	..	..	72	..	72	0·11	
	Darpangia extensions 1 and 2 ..	..	..	2	..	2	0·003	No. 10 of 1912, dated 15th December 1911.
	Kaliyamba extension	..	..	43	..	43	0·07	Due to adoption of area on published maps reported by India Survey Party.
	Malati	..	..	174	..	174	0·27	
	Bodochondono	..	..	52	..	52	0·08	
	Sondosoliya	..	..	45	..	45	0·07	
	Vishnuchakram	..	..	455	..	455	0·71	
	Kullada	..	..	682	..	682	1·07	
	Jagannadhaprasad	..	..	2,219	..	2,219	3·47	
	Paicholia	..	..	484	..	484	0·76	
	Gogodo extension	..	..	9	..	9	0·01	
	Rogada	..	..	986	..	986	1·54	
	Hukuma	..	..	132	..	132	0·21	
	Pippalapanka	..	..	366	..	366	0·57	
	Dheppaguda	..	..	791	..	791	1·24	
	Panchabhuti	..	..	1,035	..	1,035	1·62	
	Koddapada	..	..	89	..	89	0·14	
	Kurcholi	..	..	317	..	317	0·49	
	Pondakhol	..	..	792	..	792	1·24	
	Dowgam	..	..	225	..	225	0·35	
	Total ..	..	..	8,970	..	8,970	14·023	
	Excluded – Dhimirijoli	..	..	..	1,360	1,360	2·13	
	Rambha	..	..	..	364	364	0·57	
	Gullery	..	..	..	1,073	1,073	1·68	
	Durpangia	..	..	..	7,319	7,319	11·44	
	Kaliyamba	..	..	..	839	839	1·31	
	Baiballi	..	..	..	9,566	9,566	14·95	
	Tiliki	..	..	..	659	659	1·03	
	Brahmanasayi	..	..	..	240	240	0·37	
	Gogodo	..	..	..	230	230	0·36	
	Chodiapalli	..	..	..	96	96	0·15	
	Chandragiri	..	..	..	994	994	1·55	
	Ambozora	..	..	..	3,639	3,639	5·68	
	Gandribadi and 1 and 2 enclosures.	..	..	..	1,164	1,164	1·82	Do.
	Rayagada	..	..	..	121	121	0·19	
	Dhumi Dhumi	..	..	..	111	111	0·17	
	Bondagocha	..	..	..	596	596	0·93	
	Mundapetta	..	..	..	107	107	0·17	
	Vinjagiri	..	..	..	708	708	1·10	
	Kriamba	..	..	..	67	67	0·12	
	South Mohiri Palur block ..	..	..	..	3	3	0·005	
	Rampalli block	..	..	..	322	322	0·50	
	Ramaguda	..	..	..	709	709	1·11	
	Baniamari	..	..	..	680	680	1·06	
	Dabuki	..	..	..	199	199	0·31	
	Total ..	..	..	..	31,166	31,166	48·705	
	Net area ..	383,067	599	8,970	31,166	360,871	563·85 or 564	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years.	72	0·11	..	..	72	0·11	
	Added—Sollundi	..	..	817	..	817	1·28	No. 319, dated 22nd June 1911.
	Nagiri	..	..	1,141	..	1,141	1·78	
	Chamunda	..	..	565	..	565	0·88	
	Budurungu	..	..	738	..	738	1·15	No. 351, dated 8th July 1911.
	Chokkapad Forest Reserve ..	..	..	44,480	..	44,480	69·50	No. 50, dated 17th January 1912.
	Total ..	72	0·11	47,741	..	47,813	74·70	
	Excluded—Chandragiri extension.	..	..	..	72	72	0·11	Transferred to reserved forest.
	Net area ..	72	0·11	47,741	72	47,741	74·59 or 75	

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911. Acres.	Area on 1st July 1911. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1912. Acres.	Area on 30th June 1912. Equivalent in square miles.	Number and date of notification of addition or transfer.
				NORTHERN CIRCLE—*cont.*				
				Reserved forests.				
	Area notified in previous years..	193,487	302	..	..	193,487	302	
				Reserved lands not transferred to reserved forests during the year.				
Vizagapatam.	Area notified in previous years ..	6,515	10	..	..	6,515	10	
	Added—Pulugumala Gummulubanda.	..	..	170	..	170	0·54	No. 421, dated 17th August 1911.
				175		175		
	Total ..	6,515	10	345	..	6,860	10·54 or 11	
				Reserved forests.				
	Area notified in previous years.	273,746	428	..	..	273,746	428	
				Reserved lands not transferred to reserved forests during the year.				
Gōdāvari, Upper.	Area notified in previous years.	345,600	540	..	* 345,600	..	..	* Wrongly included last year, the notification having been under rules 3 and 5 of section 26—*vide* Northern Circle Conservator's R.C. No. 3950 of 1911, dated 8th January 1912.
				Reserved forests.				
	Area notified in previous years ..	260,692	407	..	..	260,692	407	
				Reserved lands not transferred to reserved forests during the year.				
Gōdāvari, Lower.	Area notified in previous years ..	47,955	75	..	..	47,955	75	
				Reserved forests.				
	Area notified in previous years..	178,231	278	..	..	178,231	278	
				Reserved lands not transferred to reserved forests during the year.				
	Area notified in previous years.	12,229	19	..	..	12,229	19	
	Excluded—							
	Kalidindi Block I	..	..	..	533	533	0·83	
	Do. do. II	..	..	..	581	581	0·91	
Kistna.	Vaivaka	..	..	..	4,282	4,282	6·69	
	Korukollu	..	..	..	1,728	1,728	2·70	
	Kummarapurugupaliem ..	..	..	..	1,855	1,855		
	Perupalem Block I	..	..	..	39	39		Notification under section 26 was cancelled by the Collector.
	Do. do. II	..	..	..	45	45	3·60	
	Gopuvanipalem extension No. III.	..	..	..	159	159		
	Thallapalem	..	..	..	206	206		
	Total ..	..	..	..	9,428	9,428	14·73 or 15	
	Net area ..	12,229	19	..	9,428	2,801	4·38 or 4	

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911. Acres.	Area on 1st July 1911. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1912. Acres.	Area on 30th June 1912. Equivalent in square miles.	Number and date of notification of addition or transfer.
	NORTHERN CIRCLE—*cont.*							
	Reserved forests.							
Kurnool, East.	Area notified in previous years..	641,770	1,003	..	..	641,770	1,003	
	Added—							
	Eastern Nallamalai Block No. 13.	..	..	534	..	534		
	Yerrakondapalem	..	..	24	..	24		
	Eastern Nallamalai Block VII.	..	..	638	..	638		
	Eastern Nallamalai Block VIII.	..	..	9	..	9		
	Eastern Nallamalai Block X.	..	..	352	..	352	7·84	Rectification as per area given in Survey of India sheets.
	Eastern Nallamalai Block VI A/2.	..	..	175	..	175		
	Eastern Nallamalai Block VI B.	..	..	514	..	514		
	Eastern Nallamalai Block VI C.	..	..	1,474	..	1,474		
	Eastern Nallamalai Block V.	..	..	1,301	..	1,301		
	Eastern Nallamalai Block I (portion).	..	..	228	..	228	0·35	Alteration of boundary line between East and South Kurnool divisions. No. 7 of 1912, dated 21st December 1911.
	Total ..	641,707	1,003	5,249	..	647,019	1011·19 or 1011	
	Excluded—							
	Eastern Nallamalai Block 11.	..	..	..	205	205		
	Eastern Nallamalai Block 12.	..	..	..	69	69		
	Eastern Nallamalai Block 14.	..	..	..	1,221	1,221	6·72	Rectification as per area given in Survey of India sheets.
	Eastern Nallamalai Block VI A/1.	..	..	..	106	106		
	Eastern Nallamalai Block III.	..	..	..	2,699	2,699		
	Cumbum reserve	..	..	..	2,280	2,280	3·56	Alteration of boundary line between East and South Kurnool divisions. No. 7 of 1912, dated 21st December 1911.
	Total ..	..	..	..	6,580	6,580	10·28 or 10	
	Net area ..	641,770	1,003	5,249	6,580	640,439	1,001	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Kurnool, South.	Area notified in previous years..	495,608	774	..	..	495,608	774·38	
	Added—							
	Portion of Cumbum ..	..	..	2,280	..	2,280	3·56	Alteration of boundary line between East and South Kurnool divisions. No. 7 of 1912, dated 21st December 1911.
	Total ..	495,608	774	2,280	..	497,888	777·94	
	Excluded—							
	Portion of Eastern Nallamalai Block I.	..	..	..	228	228	0·35	Do.
	Net area ..	495,608	774	2,280	228	497,660	777·59 or 7·78	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	..	..	..	..	..	..	
	Added—							
	North Veligonda Addition No. II.	..	..	3·82	..	3·82	0·006	No. 321, dated 22nd June 1911.
	West Veligonda Extension I.	..	..	66·00	..	66·00	0·103	No. 409, dated 17th August 1911.
	Total ..	..	..	69·82 or 70	..	69·82 or 70	0·109 or 0·11	
	Reserved forests.							
Kurnool, West.	Area notified in previous years..	549,274	858	..	..	549,274	858	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	6	0·009	..	..	†6	0·009	†This has since been found to be mistake for 1·80 acres.

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1912.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	CENTRAL CIRCLE.							
	Reserved forests.							
Bellary.	Area notified in previous years ..	399,447	624	..	..	399,447	624	
	Add—Moka Casuarina plantations.	..	..	1,100	..	1,100	2	G.O. No. 992, dated 4th April 1911.
	Total ..	399,447	624	1,100	..	400,547	626	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	41,867	66	..	..	41,867	66	
	Add—Enclosures to Adoni East and West Reserved Forests.	..	..	218	..	218	..	G.O. No. 976, dated 1st April 1912.
	Total ..	41,867	66	218	..	42,085	66	
	Deduct—Moka Casuarina plantations.	..	..	..	1,100	1,100	2	Transferred to reserved forests.
	Net area ..	41,867	66	218	1,100	40,985	64	
	Reserved forests.							
Ananta-pur.	Area notified in previous years ..	481,608	753	..	..	481,608	753	
	Add—Alterations revised by the Collector.	..	..	50	..	50	..	
	Ramagiri East Addition I ..	..	..	50	..	50	..	G.O. No. 3637, Rev., dated 15th December 1911.
	Do. do. II ..	..	..	28	..	28	..	Do.
	Total ..	481,608	753	128	..	481,736	753	
	Deduct—Thennala reserve ..	..	..	..	53	53	..	Disafforested G.O. No. 1292, Revenue, dated 3rd May 1912.
	As per Collector's revised areas ..	..	..	..	1,211	1,211	2	Due to correct computation of areas.
	Net area ..	481,608	753	128	1,264	480,472	751	
	Reserved lands not transferred during the year.							
	Area notified in previous years ..	49,074	77	..	..	49,074	77	
	Excluded	..	..	..	42,062	42,062	66	B.P. No. 661, Mis. dated 10th April 1912.
	Total ..	49,074	77	..	42,062	7,012	11	
	Reserved forests.							
Guntur.	Area notified in previous years ..	521,239	814	..	..	521,239	814	
	Add—Gokanakonda Extension I.	..	..	8	..	8	..	G.O. No. 238, dated 4th June 1912.
	Total ..	521,239	814	8	..	521,247	814	
	Reserved lands not transferred during the year.							
	Area notified in previous years ..	8	..	..	..	8	..	
	Deduct	..	..	..	8	8	..	Transferred to reserved forests.
	Total ..	8	..	..	8	..	..	

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1912.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	CENTRAL CIRCLE—*cont.*							
	Reserved forests.							
North Cuddapah.	Area notified in previous years ..	470,073	734	..	..	470,073	734	
	Reserved lands not transferred during the year.							
	Area notified in previous years ..	620	1	..	..	620	1	
	Reserved forests.							
East Cuddapah.	Area notified in previous years ..	693,396	1,083	..	..	693,396	1,083	
	Deduct—Kodur Red Sanders plantation.	..	..		32	32	..	Difference between the area notified and that arrived at by actual survey.
	Total ..	693,396	1,083	..	32	693,364	1,083	
	Reserved lands not transferred during the year—Nil.							
	Reserved forests.							
Nellore.	Area notified in previous years ..	471,677	737	..	..	471,677	737	
	Add—Ugumudy north reserved forest.	..	..	2,651	..	2,651	4	B. P. No. 1348, dated 27th September 1911. Transferred from Chingleput district.
	Total ..	471,677	737	2,651	..	474,328	741	
	Reserved lands not transferred during the year—Nil.							
	Reserved forests.							
Chingleput.	Area notified in previous years..	136,575	213	..	..	136,575	213	
	Add—Sengunram Extension II.	..	..	58	..	58	..	G.O. No. 2460, dated 11th August 1911.
	Perunguli Extension I ..	..	..	6	..	6	..	G.O. No. 3030, dated 12th October 1911.
	Total ..	136,575	213	64	..	136,639	213	
	Deduct—Ugumudy north reserved forest.	..	..	..	2,651	2,651	4	Transferred to reserved forests of Nellore district.
	Net area ..	136,575	213	64	2,651	133,988	209	
	Reserved lands not transferred during the year.							
	Area notified in previous years..	64	..	..	..	64	..	
	Deduct—Sengunram Extension II	..	..	..	58	64	..	Transferred to reserved forests.
	Perunguli Extension I ..	..	..	..	6			
	Perunguli Extension II ..		..	10	..	10	..	G.O. No. 1455, dated 14th May 1912.
	Total .	64	..	10	64	10	..	
	Reserved forests.							
Chittoor.	Area notified in previous years..	536,561	839	..	..	536,561	839	G.O. No. 3172, dated 26th October 1911.
	Add—Airala extension ..	..	..	850	..	850		
	Vovilthotta extension	..	..	4	..	4	2	G.O. No. 2735, dated 8th September 1911.
	Basaviréddipalli	..	..	2	..	2		G.O. No. 3724, dated 20th December 1911.
	Total ..	536,561	839	856	..	537,417	841	
	Deduct—Gundalabhavi tope ..	..	..	..	12	12	..	G.O. No. 1481, dated 18th May 1911 (disafforested).
	Net area ..	536,561	839	856	12	537,405	841	

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July. 1911. Acres.	Area on 1st July. 1911. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1912. Acres.	Area on 30th June 1912. Equivalent in square miles.	Number and date of notification of addition or transfer.
	CENTRAL CIRCLE—*cont.*							
	Reserved lands not transferred during the year.							
Chittoor —*cont.*	Area notified in previous years..	856	1	..	..	856	1	
	Add—Chases Hill Addition ..	..	..	7·54	..	7·54	..	G.O. No. 2858, dated 21st September 1911.
	Chittoor Addition	..	..	1·78	..	1·78	..	G.O. No. 3064, dated 16th October 1911.
	Whiteside garden Addition ..	..	..	5·03	..	5·03	..	G.O. No. 2185, dated 18th July 1911.
	Deduct—Vovilthotta extension..	..	..	..	4	4	..	Transferred to reserved forest.
	Airala extension	..	..	..	850	850	..	
	Basavareddipalli	..	..	..	2	2	..	
	Net area ..	856	1	14	856	14	..	
	SOUTHERN CIRCLE.							
	Reserved forests.							
North Vellore.	Area notified in previous years ..	319,170	499	..	..	319,170	499	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	413	..	..	* 405	8	..	
	Reserved forests.							
South Vellore.	Area notified in previous years ..	476,847	745	..	..	476,847	745	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	..	..	..	..	.. *	..	
	Reserved forests.							
South Arcot.	Area notified in previous years..	221,167	346	..	..	221,167	346	
	Excluded—							
	Portion of Block No. 48 of Shonankuppam reserved forest..	..	..	..	41	41	·06	G.O. No. 1294, Rev., dated 3rd May 1911.
	Net area ..	221,167	346	..	41	221,126	345	
	***Reserved lands not transferred to reserved forests during the year*—Nil.**							
	Reserved forests.							
North Salem.	Area notified in previous years ..	507,162	792	..	..	507,162	792	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	29,300	46	..	..	29,300	46	
	Added—							
	Sanamavu Extension	..	..	9	..	9	·01	G.O. No. 3473, Rev., dated 21st December 1911.
	Total ..	29,300	46	9	..	29,309	46	

* *Vide* remarks in abstract of Forms No. 65.

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911. Acres.	Area on 1st July 1911. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1912. Acres.	Area on 30th June 1912. Equivalent in square miles.	Number and date of notification of addition or transfer.
		SOUTHERN CIRCLE—*cont.*						
		Reserved forests.						
South Salem.	Area notified in previous years ..	371,767	581	..	..	371,767	581	
		Reserved lands not transferred to reserved forests during the year.						
	Area notified in previous years ..	3,790	6	..	..	3,790	6	
		Reserved forests.						
Trichinopoly.	Area notified in previous years ..	227,714	356	* 22	..	227,736	356	
		Reserved lands not transferred to reserved forests during the year.						
	Area notified in previous years ..	2,504	4	..	* 358	2,146	3	
		Reserved forests.						
Madura.	Area notified in previous years ..	426,128	666	..	..	426,128	666	
		Reserved lands not transferred to reserved forests during the year.						
	Area notified in previous years ..	1	..	..	..	1	..	
	Added—							
	Gundar valley Extension ..	..	..	29	..	29	..	G.O. No. 2269, Revenue, dated 25th July 1911.
	S. No. 104-F. included in the Mankaradu Reserve.	..	..	7	..	7	..	G.O. No. 3725, Revenue, dated 20th December 1911.
	Total ..	1	..	36	..	37	·06	
		Reserved forests.						
Ramnad.	Area notified in previous years ..	46,484	73	..	..	46,484	73	
	Added—							
	Additions 5, 6 and 7 to Srivilliputtūr ghât forests V (*a*) or Melakottapatti and Pillayarnattam.	..	..	13	..	13	..	G.O. No. 509, Revenue, dated 22nd February 1912.
	Total ..	46,484	73	13	..	46,497	73	
		Reserved lands not transferred to reserved forests during the year.						
	Area notified in previous years ..	274	..	..	1	273	..	
	Excluded—							
	Additions 5, 6 and 7 to Srivilliputtūr ghât forests V (*a*).	..	..	..	12·74	12·74	..	Transferred to reserved forests.
	S. F. No. 218, of Tirumalaperi village.	..	..	..	0·40	0·40	..	Notification under section 4 cancelled in G.O. No. 770, Mis., dated 15th March 1912.
	Net area ..	274	..	..		260	..	

* *Vide* remarks in abstract of Forms No. 65.

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911. Acres.	Area on 1st July 1911. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1912. Acres.	Area on 30th June 1912. Equivalent in square miles.	Number and date of notification of addition or transfer.
	SOUTHERN CIRCLE—*cont.*							
	Reserved forests.							
Tinnevelly.	Area notified in previous years ..	226,819	354	..	..	226,819	354	
	Added—							
	Addition to Kottamalai reserved forest.	..	..	19	..	19		No. 18, dated 21st December 1911.
	Panchantangi estate ..	..	..	73	..	73		No. 532, dated 28th November 1911.
	Addition to Kadayanallur reserved forest III-C 2.	..	..	33	..	33		No. 53, dated 18th January 1912.
	Addition to Chinnakadu reserved forest.	..	..	1	..	1	1	No. 28, dated 15th December 1911.
	Kaloli enclosure	..	..	9	..	9		No. 81, dated 31st January 1912.
	Hill enclosures in reserved forests II and II (*b*).	..	..	189	..	189		No. 19, dated 20th December 1911.
	Addition to Kalakad Tirukarangudi ghât forests Lower slopes I (*a*).	..	..	7	..	7		No. 147, dated 11th March 1912.
	Total ..	226,819	354	331	..	227,150	355	
	Excluded—							
	Portion of Papanasam Alwarkurichi ghat forest Lower slopes II (*b*).	..	..	..	(*a*)	..	..	
	Net area ..	226,819	354	331	(*a*)	227,150	355	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	798	1	..	..	798	1	
	Added—							
	Addition to Krishnapuram extension.	..	..	12	..	65	..	No. 419, dated 22nd August 1911.
	Old Survey No. 1357 E. of Ilanji village.	..	..	32	..		..	No. 79, dated 9th February 1912.
	Last bit of Nadugani	..	..	1	..		..	No. 462, dated 21st September 1911.
	Addition VI to Kottamadakki reserved forest.	..	..	20	..		..	No. 24, dated 22nd December 1911.
	Total ..	798	1	65	..	863	1	
	Excluded—							
	Area transferred to reserved forests.	..	..	..	331	331	..	
	Net area ..	798	1	65	331	532	1	
	WESTERN CIRCLE.							
	Reserved forests.							
South Canara.	PUTTUR.							
	Balpa extension	..	..	1,308 (*b*)+170	..	1,478	..	No. 520, dated 8th November 1911.
	Area notified in previous years ..	508,677	..	(*b*) 200	(*c*) 385 (*g*) 117	508,375	..	No. 439, dated 31st August 1911.
	Total ..	508,677	795	1,678	502	509,853	797	
	Reserved lands not transferred to reserved forests during the year.							
	COONDAPUR.							
	Baindur Extension I	..	..	2	..	2	..	No. 239, dated 16th May 1912.
	Baindur Extension II	..	..	5	..	5	..	Do.
	PUTTUR.							
	Kalanjimale addition	..	..	6	..	6	..	No. 438, dated 31st August 1911.
	KASARAGOD.							
	Survey No. 326-4 of Adur village.	..	..	(*g*)	..	(*g*)	..	No. 543, dated 21st November 1911.
	Area notified in previous years.	70,310	..	..	(*e*) 1,308 (*d*) 6,400	62,602	..	
	Total ..	70,310	110	13	7,708	62,615	98	

(*a*) Less than an acre (17 cents) disafforested in notification No. 162, dated 29th March 1912.
(*b*) Rectification of area due to adoption of Survey of India figures.
(*c*) Disafforested.
(*d*) Transferred to unreserved lands.
(*e*) Transferred to reserved forests.
(*f*) Correction of area by recomputation.
(*g*) Less than one acre.

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1912.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
1	2	3	4	5	6	7	8	9
	Western Circle—*cont.*							
	Reserved forests.							
Malabar, North.	Begur.							
	Ladysmith additions	..	..	473	..	473	..	No. 284, dated 30th May 1911.
	Area notified in previous years	166,892	..	..	(*a*) 4	166,888	..	No. 160, dated 29th March 1912.
	Total	166,892	261	473	4	167,361	262	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years.	495	1	..	(*b*) 473	22	..	
	Reserved forests.							
Malabar, South.	Area notified in previous years	69,263	108	..	..	69,263	108	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years	35,223	55	..	..	35,223	55	
	Reserved forests.							
The Nilgiris.	Ootacamund.							
	Snowdon Reserve addition	..	..	18	..	18	..	No. 533, dated 15th November 1911.
	Area notified in previous years	306,161	..	..	(*a*) 42 (*c*) 15	306,104	..	No. 105, dated 23rd February 1912.
	Total	306,161	478	18	57	306,122	478	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years	52,548	82	..	(*b*) 18	52,530	82	
	Reserved forests.							
Kollegal.	Area notified in previous years	286,193	447	..	..	286,193	447	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years	165,063	258	..	..	165,063	258	
	Reserved forests.							
Coimbatore.	Talamalai.							
	Talamalai addition	..	..	4	..	4	..	No. 49, dated 17th January 1912.
	Bhavani.							
	Palamalai addition	..	..	19	..	19	..	No. 175, dated 9th April 1912.
	Area notified in previous years	589,375	..	..	(*a*) 4	5,89,371	..	No. 52, dated 17th January 1912.
	Total	589,375	921	23	4	5,89,394	921	

(*a*) Disafforested. (*b*) Transferred to reserved forests. (*c*) Rectification due to adoption of surveyed area.

Area of reserved forests and reserved lands during 1911–1912—*cont.*

District.	Name of forest.	Area on 1st July 1911.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1912.		Number and date of notification of addition or transfer.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
1	2	3	4	5	6	7	8	9
		WESTERN CIRCLE—*cont.*						
		Reserved lands not transferred to reserved forests during the year.						
	TALAMALAI.							
Coimbatore, North—*cont.*	Field No. 32, Kuduvay village, enclosure in Vellamundy Reserve.	..	..	3	..	3	..	No. 51, dated 17th January 1912.
	BHAVANI.							
	South Bargur additions ..	..	..	27	..	27	..	No. 82, dated 9th February 1912.
	Area notified in previous years.	271	..		(*a*) 23	248	..	
	Total ..	271	..	30	23	278	..	
		Reserved forests.						
	Area notified in previous years	196,600	307	..	(*b*) 240	1,96,360	307	No. 468, dated 27th September 1911.
		Reserved lands not transferred to reserved forests during the year.						
Coimbatore, Central.	**BOLAMPATTI.**							
	Jaghir Porathi enclosure in Bolampatti Reserve Block II.	..	..	233	..	233	..	No. 467, dated 27th September 1911.
	Area notified in previous years	30,454	..	..	(*c*) 102	30,352	..	
	Total ..	30,454	48	233	102	30,585	48	
		Reserved forests.						
	Area notified in previous years	290,628	454	..	..	2,90,628	454	
Coimbatore, South.		***Reserved lands not transferred to reserved forests during the year.***						
	Addition to Thalavoipatnam Reserve.	..	..	16	..	16	..	No. 23, dated 21st December 1911.

(*a*) Transferred to reserved forests. (*b*) Disafforested. (*c*) Correction of area by recomputation.

ANNUAL-

Forest Department,

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
Ganjām ..	SQ. MLS. * 563·74	No. 10 of 1912, dated 15th December 1911.	Chandragiri extension, Pudrangi enclosure.	SQ. MLS. 0·11	RS. ..	RS. ..	RS. ..
Vizagapatam.	302·32	....	....	..	..	..	..
Gōdāvari, Upper.	427·73	....	....	..	..	..	..
Gōdāvari, Lower.	407·33	....	....	..	..	..	..
Kistna ..	278·49	....	....	..	..	..	..
Kurnool, East.	1,000·69(*a*)	....	....	..	..	..	..
Kurnool, South.	777·59 (*a*)	....	....	..	..	..	..
Kurnool, West.	858·24	....	....	..	..	..	..
Total ..	4,616·13			0·11	..	..	..
							Southern
Bellary ..	* 626	....	....	..	..	..	..
Anantapur..	751	G.O. No. 3637, dated 15th December 1911.	Ramagiri, East, Additions I and II.	0·122	79	..	650
Guntūr ..	814	G.O. No. 1454, dated 14th May 1912.	Gokanakonda extension I	0·01	..	..	..
North Cuddapah.	734	....	....	..	..	..	..
East Cuddapah.	1,083	....	....	..	..	..	..
Nellore ..	741	....	....	..	..	..	..
Chingleput.	209	G.O. No. 2460, dated 11th August 1911.	Senkunram extension II ..	0 09	117	..	14,747
		G.O. No. 3030, dated 12th October 1911.	Perungoli extension I ..	0·01	250	..	24,973
Chittoor ..	841	G.O. No. 3172, dated 26th October 1911.	Airala extension	1·329	..	..	..
		G.O. No. 2735, dated 8th September 1911	Vovilthota addition ..	0·006	..	..	..
		G.O.No. 3274, dated 20th December 1911.	Basavareddipalle addition ..	0·003	..	..	..
Total ..	5,799			1·57	446	..	..

* Difference due to adoption of area on
† Includes the area of Moka casuarina plantations—1100 acres
(*a*) Difference due to adoption of area on published maps reported by India
(*b*) Sal area
(*c*) Area of Nugur
(*d*) *Vide* remark in
(*e*) Notification under section
(*f*) Pending with the
NOTE.—(*Central Circle*) This estimate will include all reserved

FORM No. 66.

Madras Presidency.

incurred on, Forest Settlements during 1911–1912.

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area in square miles.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
....	..	Sollundi	1·28	..	..	..
		Nagiri	1·78	..	..	..
		Pudrangi	1·15	..	..	..
		Chamunda	0·88	..	..	..
		Chokkapad	69·50	..	..	..
Sarugudu Block II	10·16	Puligumsla and Gumulubanda.	0·54	..	..	(*b*) 0·14
....	..	....	..	..	..	(*c*) 540
Coringa extension	75	....	..	..	..	..
....	..	....	..	..	..	4·38
....	..	....	..	..	..	..
....	..	North Veligonda addition 2 ..	0·006	..	..	..
		West Veligonda extension 1 ..	0·103	..	..	0·07
....	..	....	..	..	..	(*d*) 0·01
	85·16		75·239	..	..	544·60
Circle.						
Sandal area near Chilkamahatti.	1·20	Enclosures to Adoni, East and West, Reserved Forests.	0·34	..	..	....
Yerrakonda extension No. II..	9·80	....	..	..	..	....
Vengalammacheruvu extension.	0·09 (*e*)	....	..	413	..	....
Budikonda extension	0·58	....	..	..	..	....
Bhadrapuram extension ..	0·56 (*f*)	....	..	..	..	....
Agraharam additions Nos. I. and II.	0·21	....	..	5	..	....
	(*e*)					
Cherlapalli addition No. I ..	0·08	....	..	..	..	....
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	....	..	..	..	....
..	..	Perunguli extension No. II.	0·02	..	..	....
....	..	....	..	..	..	..
....	..	Chases Hill addition	0·012	..	..	..
....	..	Chittoor addition	0·001	149	..	..
....	..	Extension to Whiteside garden.	0·007	..	..	..
	12·52		0·38	567	..	

published maps reported by India Survey Party.
brought to Form No. 65 in the current year.
Survey Party and alteration of boundary between East and South districts.
near Donaboi.
taluk newly added.
enclosure to Form 65.
16 sent to Board.
Divisional officer.
lands under section 26 and unreserved lands.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.	RS.	RS.	
Vellore, North.	499	....	....	..	..	..	..
Vellore, South.	745	....	....	..	..	..	..
Arcot, South.	346	....	....	..	..	..	..
Salem, North.	792	....	....	..	..	..	..
Salem, South.	581	....	....	..	..	..	..
Trichinopoly.	356	....	....	..	..	..	..
Madura ..	666	....	....	..	..	..	..
Ramnad ..	73	G.O., No. 509, Rev., dated 22nd Feb. 1912.	Additions 5, 6 and 7 to Srivilliputtur ghât Forests V (*a*) Melakottapatti and Pillayarnatham.	0·020	..	..	..
Tinnevelly.	354	G.O., No. 3422, Rev., dated 15th Nov. 1911.	Panjantangi estate	0·113	..	..	..
	..	G.O., No. 3682, Rev., dated 15th Dec. 1911.	Addition to Chinnakadu Reserved Forests.	0·001	..	..	..
	..	G.O., No. 3726, Rev., dated 20th Dec. 1911.	Hill enclosures in Reserved Forests II and II (*b*).	0·296	..	..	..
	..	G.O., No. 3750, Rev., dated 21st Dec. 1911.	Additions to Kottamalai Reserved Forests.	0·030	..	..	..
	..	G.O., No. 137, Rev., dated 18th Jan. 1912.	Addition to Kadayanallur Reserved Forests IIIC-2.	0·052	..	..	..
	..	G.O., No. 263, Rev., dated 31st Jan. 1912.	Kaloli enclosure	0·014	167	..	..
	..	G.O. No. 729, Rev., dated 11th Mar. 1912.	Kalakkad Tirukurangudi Reserved Forests I (*a*).	0·010	191	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
Total ..	4,412			·536	358	..	..

incurred on, Forest Settlements during 1911-1912—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Survey No. 18, Vantrantangal village of Panamadangi reserve.	1·32	....	..	..	..	..
Survey Nos. 249, 250 and 251 of Kemparajapuram village, Tiruvallam plantation.	6·73	....	..	..	..	..
	8·05 acs. or ·01 sq. mls.		..	..	..	..
....	..	....	..	..	..	..
....	..	....	..	..	..	
Hudaidurgam	46	Sanamavu extension	·001	..	..	..
Bainurmalai extension ..	·015	..	..	..	..	..
Arana	3	..	..	..	..	..
Tirthagiri	3	....	..	..	..	..
Vengur Padugais	1·00	....	..	..	..	..
Palamalai extension.. ..	1·39	..	..	..	..	..
V. Kanapadi extension ..	1·00	..	..	..	..	..
Survey No. 1704 B of Panakad in Perumalmalai reserve.	·0023	Gundar valley extension .. Mankaradu	·04493 ·00987	.. ..	.. ..	.. ..
Survey No. 1861-B. of Valaikulam and 2359 of Kollangondan.	0·0430	....	..	599	..	..
Alagapuri	0·0004					
Valaikulam Parambu extension.	0·0540					
Pudupatti	0·0770					
Venkataswarapuram ..	0·0540					
Sundarapandian	0·0540	Valaikulam .. .. .. Khansapuram .. .. Lakshmipuram	0·0090 0·0600 0·0560	.. .. ..	.. .. ..	.. .. ..
Kottamalai reserve addition ..	0·190	....	..	..	..	..
Additions to Vadagarai Melpidagai.	0·110	....	..	73	..	..
Additions to Reserved Forest V (*a*) in Tirumalapuram.	0·003	....	..	13	..	..
Additions to Reserved Forest V (*a*) in Naranapuram.	0·011	....	..	13	..	..
Additions to Reserved Forest V (*a*) in Vasudevanallur.	0·029	....	..	..	..	..
Additions to Reserved Forest V (*a*) in Mela Chintamani.	0·010	....	..	..	..	..
Additions to Reserved Forest V (*a*) in Mela Puliangudi.	0·014	....	..	..	..	..
Addition II to Kottamadakki.	0·245	....	..	..	..	..
Addition to the reserved forest II (*b*) in Vikramasingapuram.	0·003	....	..	..	..	..
....	..	Mailodai and Tirukuttachalaparvatham estates.	0·114	..	..	..
....	..	Old Survey No. 1357 (*e*) of Ilangi.	0·049	..	..	..
....	..	Addition to Krishnapuram extension.	0·020	..	..	..
....	..	Last bit of Nadugani	0·002	..	..	..
....	..	Addition VI to Kottamadakki.	0·031	.	..	
	56·3147		·3968	698	..	..

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of the year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area in	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts	In other accounts.	
1	2	3	4	5	6	7	8
							Western
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS.
South Canara.	795	G.O. No. 3328, Rev., dated 8th November 1911.	Balpa extension	2·31	..	..	..
			Total ..	2·31	..	..	..
Malabar, North.	261	G.O. No. 1638, Rev., dated 30th May 1911.	Ladysmith additions	·74	..	..	..
Malabar, South.	108	....	....	..	..	..	..
The Nilgiris.	478	G.O. No. 3419, Rev., dated 15th November 1911.	Snowdon reserve addition ..	·05 (*a*)—·02	526	..	..
Kollegal ..	447	....	....	..	..	..	..
Coimbatore, North.	921	G.O. No. 121, Rev., dated 17th January 1912.	Talamalai addition	·006	..	..	..
	..	G.O. No. 1064, Rev., dated 9th April 1912.	Palamalai addition	·03	..	..	..
			Total ..	·036	..	..	..
Coimbatore, Central.	307	....	....	..	..	..	..
Coimbatore, South.	454	....	....	..	..	..	..
Total.	3,771			3·11	526	..	..

(*a*) Excluded at settlement.

incurred on, Forest Settlements during 1911–1912—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
....	..	Kalanjimale addition ..	·009	830	..	..
		Baindur extension I	·003	..	..	..
		Do. II	·008	..	..	..
		Survey No. 326-4, of Adur village.	(*c*)	..	..	..
			·02	830	..	..
....	..	....	..	..	..	..
The Silent valley	35	....	..	..	..	..
....	..	....	..	..	..	..
Madeswaranmalai and its extension.	246	....	..	..	..	..
Mambetta	12	....	..	..	..	..
Andipalayam field No. 299 (portion in Doddasampagai reserve)	·004	....	..	..	..	..
	258·004		..	..	..	..
Gutialattur extension ..	·387	Field No. 32 Kuduvay village enclosure in Vellamundy reserve.	·005	..	..	..
....	..	South Bargur additions ..	·042	..	..	..
	·387		·047	..	..	..
Attapadi block No. V. .. Do. No. VI. ..	47·39	Jagir Porathi	·36	..	..	..
Survey No. 469-B. of Vadamugum Vellodu tope reserve.	006	....	..	..	..	..
Modur Pethikuttai addition	·19 (*b*)—·16	....	..	..	..	..
	47·426		·36	..	..	..
....	..	Thalavoipatnam addition ..	·025	..	..	..
	340·81		·45	830	..	..

(*b*) Correction of area by re-computation.

(*c*) Less than one acre.

ANNUAL FORM No. 67.

Forest Department, Madras Presidency.

RECORD of Demarcation and Maintenance of Boundaries during 1911-1912.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.	
								On new work.	On repairs
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	Rs.
Ganjám	(*u*) ● 28	(*a*) & (*v*) 948	(*w*) 348	(*x*) 1,324	(*bb*)...	(*cc*) 80	(*y*) 1,404	(*z*) 1,297	{ (*aa*) 307 (*d*) −7
Vizagapatam	20	(*a*) 498	...	518	...	...	518	{ 545 33	· 623
Gódávari, Upper	(*e*) 171	425	(*f*) 76	672	...	143	815	(*g*) 15,771	{ 113 1,708
Lower	...	628	187	815	...	72	887	...	{ (*d*) −2
Kistna	1	{ (*c*) 40 (*a*) 517 }	53	611	5	41	657	303	933
Kurnool, East	74	524	105	(*b*) 703	...	48	751	672	{ 321 (*d*) −19
Do. South	20	420	189	(*b*) 629	...	5	634	190	305
Do. West	30	{ 286 (*a*) 334	275	(*b*) 925	...	101	1,026	275	44
Total ...	344	{ 2,323 (*a*) 2,297	1,233	6,197	5	490	6,692	19,086	4,326
Central Circle.									
Bellary	...		1,728	1,788	...	...	1,788	...	291
Anantapur	2	254	1,561	1,817	1	...	1,818	88	1,000
Guntúr	...	18	1,374	1,392	2	...	(*h*) 1,394	...	{ 559 (*d*) −1
Cuddapah, North	...	{ 20 (*a*) 730 }	628	(*l*) 1,378	...	29	1,407	...	{ 150 (*d*) + 488
Do. East	...	{ 8 (*a*) 679 }	224	911	...	46	957	...	{ 63 (*d*) + 274
Nellore	...	23	2,056	2,079	...	84	2,163	...	{ ( ) 1,024 (*d*) + 229
Chingleput	...	630	294	924	...	...	924	...	(*j*) 2,269
Chittoor	3	1,730	...	1,733	...	33	1,766	52	{ 137 (*d*) + 209
Total ...	5	{ 28 (*a*) 4,124 }	7,865	12,022	3	192	12,217	140	{ 6,683
Southern Circle.									
North Vellore	...	1,149	...	1,149	...	7	1,156	...	{ (*o*) 386
South do.	...	(*a*) 1,089	4	1,093	...	22	1,115	...	(*d*) +240
South Arcot	...	1,096	124	(*l*) 1,220	...	...	1,220	...	(*p*) 358
North Salem	5	1,267	50	1,322	7	40	1,369	49	(*t*) 426
South do.	...	(*a*) 921	180	1,143	...	5	1,148	(*m*) 101	{ (*q*) 270 (*d*) −36
Trichinopoly	6	42 (*n*) 934	(*n*) 67	1,007	11	24	1,042	189	{ (*r*) 776 (*d*) +10
Madura	88	(*a*) 722	294	1,124	430	178	1,732	3,305	(*s*) 591
Ramnad	...	25 17	83	100	..	...	100	...	356
Tinnevelly	2	193	178	373	1	14	388	23	338
Total ...	96	{ 4,723 (*a*) 2,732	980	8,531	449	290	9,270	3,667	3,755

(*a*) Cleared by Forest subordinates free of cost.
(*b*) Difference between last year's and current year's figures is due to rectification of figures. Those given last year by the Collectors are reported wrong.
(*c*) Boundary of Jaggayyapeta reserve rectified.
(*d*) Added or deducted as per Accountant-General's final figures.
(*e*) Demarcation of boundary line between zamindari dupati lands and Government unreserves.
(*f*) Do. last year now reported for the first time.
(*g*) Said to relate to *all* charges of dupati land, etc., survey and demarcation.
(*h*) Increase of two miles over the previous year's figure is due to the addition of Gokanakonda extension I.
(*i*) Excludes 24 miles of coupe lines wrongly included in last year's figure.
(*j*) Includes Rs. 1,806-3-9, the pay, etc., of watchers and Rs. 463-1-4 the cost of cutting coupe and conservancy lines, demarcation stones, whitewashing slabs and travelling allowance of watcher.
(*k*) Rupees 875 was spent on fixing slabs, and Rs. 213 on cutting coupe lines,
(*l*) Revised figure according to computations specially made for the purpose.
(*m*) Cost of preliminary demarcation of Jarugumalai proposed reserve.
(*n*) The difference between the total of columns 3 and 4 of the current year and column 5 of last year is due to the addition of four miles of Namakkal range and 13 miles of Karur taluk omitted to be shown in the last year's return.
(*o*) Includes cost of cutting and clearing coupe lines.
(*p*) Cost of cutting top boundary lines, coupe and strip lines of existing boundaries and cost of establishment of preliminary demarcation of Tekumalai and Suklampatti.
(*q*) Forty-nine miles of coupe lines were cleared at a cost of Rs. 325 in South Vellore.
(*r*) Cost of coupe demarcation, preparation of sign boards for coupes, etc.
(*s*) Seventy one miles of coupe lines were cleared.
(*t*) Includes cost of clearing 42 miles of coupe lines.
(*u*) Excludes 98 miles of boundaris belonging to Parlakimedi Maliahs.
(*v*) Do. 22 do. do.
(*w*) Do. 113 do. do.
(*x*) Do. 233 do. do.
(*y*) Do. 249 do. do.
(*z*) Do. 767 do. do.
(*aa*) Do. 53 do. do.
(*bb*) Do. 10 do. do.
(*cc*) Do 6 do. do

Record of Demarcation and Maintenance of Boundaries during 1911–1912—*cont.*

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.	
								On new work.	On repairs.
1	2	3	4	5	6	7	8	9	10
Western Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	RS.
South Canara ..	57	102 (*a*) 9	3,587	3,705	53	124	3,882	333	179
Malabar, North ..	1	140 (*a*) 15	961	1,117	71	86	1,224	186	79
Do. South ..	(*a*) 1	62 (*a*) 8	35	106	5	55	166	(*f*) 134	..
The Nilgiris	..	(*a*) 31	1,583	1,614	(*c*)	299	1,913	..	(*i*) 772 (*h*) +24
Kollegal	(*e*) 7	5 (*a*) 272	88	372	..	67	439	..	878 (*i*) 113
Coimbatore, North ..	18	(*b*) 10 (*a*) 360	(*b*) 141	529	(*b*) 42	110	681	887	251 (*g*) 100 (*h*) — 1
Do. Central.	..	21 (*a*) 391	162	574	6 (*d*) 12	43	635	(*d*)83	217 (*i*) 221
Do. South ..	..	76 (*a*) 54	84	214	..	52	266	..	1,050 (*i*) 206
Total ..	83 (*a*) 1	416 (*a*) 1,140	6,591	8,231	177 (*d*) 12	786	9,206	1,623	4,089
Grand Total ..	522 (*e*) 7	7,490 (*a*) 10,293	16,669	34,981	646	1,758	37,385	24,516	18,853

(*a*) Cleared by subordinates free of cost.
(*b*) Revised figures furnished by the Collector on account of alterations necessitated by the verification of boundaries by the Special Officer.
(*c*) Less than one mile.
(*d*) Boundary of proposed reserved forests preliminarily demarcated.
(*e*) Demarcated during 1910–1911 but omitted to be shown in that year's statement by the Collector.
(*f*) Cost of preparing stones.
(*g*) Cost of clearing Dimbum enclosure recovered from the District Board.
(*h*) Variations between the Accountant-General's and District Forest officers' figures.
(*i*) Cost of cutting and clearing block, compartment and coupe lines.

ANNUAL FORM No. 68.

Forest Department, Madras Presidency.

STATEMENT of Forest areas surveyed and under survey during the year 1911–1912.

District.	Areas surveyed and under survey during the year 1911–1912.															
	Special surveys—Maps on 2-inch scale or over by Survey of India Department or Madras Survey.								Ordinary, included in district surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.				With details of growing stock.		Without details of growing stock.		Total cost.			
	Previous.	Of year.	Previous.	Of year.		Previous.	Of year.	Total cost.	Previous.	Of year.	Previous.	Of year.		Previous.	Of year.	Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern Circle.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.
Direction	..	..	..		..	..	..	..	..	..	..		..	..	..	..
Ganjam	..	..	(*a*) 590	..	..	447	..	(*b*)11,081	..	..	..	..	..	..	..	..
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gōdāvari, Upper ..	..	..	(*c*) 716	..	..	252	..	..	..	..	..	..	..	..	..	..
Do. Lower ..																
Kistna..	..	..	88	..	..	27	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	2,725	..	..	937	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..														
Do. West ..	..	..														
Total ...	..	..	4,119	..	..	1,663	..	11,081	..	..	..	..	..	..	..	..
Central Circle.																
Bellary	..	..	..	..	..	..	..	..	..	..	690	..	..	..	..	..
Anantapur	..	..	215	..	..	..	..	..	..	..	188	..	..	..	..	..
Guntūr	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Cuddapah ..	..	..	577	..	..	..	..	..	..	..	..	..	..	..	..	..
East do. ..	..	..	1,083	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
Chittoor	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..
Total ..	67	..	1,915	..	..	..	..	..	..	..	878	..	..	..	..	..
Southern Circle.																
North Vellore ..	..	..	499	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	745	..	..	..	..	..	..	..	..	..	..	..	..	..
South Arcot	..	..	* 68	..	* 2,767	* 145	..	..	..	..	* 272	..	..	..	..	..
North Salem	..	..	792	..	24,366	..	..	..	..	..	..	..	..	..	..	..
South do.	..	..	541	..	..	..	..	..	..	..	..	..	..	40	..	..
Trichinopoly.. ..	..	..	66	..	25,000	124	..	246	..	..	..	..	..	280	..	..
Madura	..	..	618	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly *cum* Ramnad.	..	..	427	..	3,451	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	3,756	..	55,584	269	..	246	..	..	272	77	..	320	..	..

* Revised figure furnished by the Collector. (*a*) Revised by Survey of India Party.

(*b*) Relates to Ganjām, Gōdāvari (Upper and Lower), Kistna and Kurnool (East, South, West).

(*c*) Correspondence is pending with Survey of India Party regarding the accuracy of these figures.

Statement of Forest areas surveyed and under survey during the year 1911–1912—*cont.*

District.	Areas surveyed and under survey during the year 1911–1912—*cont.*								Areas remaining to be taken under survey.	Total forest area at end of year, as per Form No. 65.	Cost.		
	Chain and compass or other surveys by local officers.												
	With interior details.					Boundary surveys.							
	4-inch or over.		Under 4-inch.										
	Previous.	Of year.	Previous.	Of year.	Total cost.	Previous.	Of year.	Total cost.			Previous.	Of year.	Entire cost of all surveys to end of the year.
	18	19	20	21	22	23	24	25	26	27	28	29	30
Northern Circle.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	RS.	RS.
Direction	..	..	..	..	..	..	..	..	..	..	1,318	(*a*) 665	1,983 (*j*) + 308
Ganjam	53	..	..	..	..	1,620	10	72	75	639	19,766	(*b*) 1,379 (*e*) + 5	21,150
Vizagapatam	298	4	..	..	..	..	..	..	11	313	2,207	..	2,207
Godavari Upper ..	..	..	..	..	..	(*c*) 30 villages.	65 villages.	(*d*) ..	..	428	6,638	(*e*) + 1,056	7,694
Godavari Lower ..	1	..	26	..	6	540		796	376	482	12,083	375	12,458
Kistna	16	..	..	..	5	374	..	203	178	282	5,549	(*b*) 889 (*e*) + 20	6,458
Kurnool, East	51	..	..	..	215	92	..	..		1,001	10,990	1,079	14,948
Do. South						143	..	..	143	778		1,473 (*e*) + 446	
Do. West						5	..	97	260	858		(*b*) 960	
Total ..	419	4	26	..	226	2,774 and 30 villages.	10 and 65 villages.	1,168	1,043	4,781	58,551	8,347 + (*k*) 308	67,206
Central Circle.													
Bellary	..	15	..	..	828	..	..	..	..	690	5,577	828 + 583	6,988
Anantapur	173	..	..	..	..	40	27	1,775	11	762	4,616	781	5,397
Guntúr	..	29 length of a spring channel surveyed lineal miles 25.	..	..	145	..	..	..	..	814	15,881	572 + 246	16,699
North Cuddapah	..	..	..	..	..	..		..	158	735	1,11,303	447	1,11,750
East do.	..	..	..	..	..	..	..	..	..	1,083			
Nellore	..	..	..	..	..	11	..	345	..	741	4,621	1,018	5,639
Chingleput	..	..	..	..	..	..	..	..	..	209	3,502	372	3,874
Chittoor	..	..	..	..	..	..	..	..	..	841	..	(*k*) 508	508
Total ..	173	44	..	..	973	51	27	2,120	169	5,875	1,45,500 (*f*) + 1,747	5,355 (*f*) + 835	1,50,855 (*f*) + 2,582
Southern Circle.													
North Vellore	..	..	..	..	..	..	..	..	..	499	8,079	..	8,079
South do.	..	..	..	..	..	..	..	..	..	745	12,062	406	12,468
South Arcot	6	..	..	..	52	..	..	..	0·49	345	*6,282	(*g*) 501	6,783
North Salem	..	..	..	..	..	..	..	..	..	838	29,876	1,272	31,148
South do.	38	..	..	..	317	398	..	149	6	587	27,794	(*h*) 574	28,368
Trichinopoly	27	..	..	..	1,264	132	17	524	109	359	34,776	802	35,578
Madura	..	(*i*)	..	..	..	48	..	..	..	666	5,519	1,178	6,697
Tinnevelly *cum* Ramnad ..	..	..	..	..	..	..	..	..	..	429	3,451	(*g*) 272	3,723
Total ..	71	..	..	..	1,633	578	17	673	115·49	4,468	1,27,839	5,005 (*f*) +203	1,32,844 (*f*) +203

(*a*) Adjusted on bills of Survey of India Party for Ganjam.
(*b*) Includes Establishment charges. (*c*) As revised by the Collector in the district report.
(*d*) District Forest officer wires Rs. 15,771; represent all charges of Dupati survey and demarcation of unnotified forests of Nugur and Cherla during 1911-1912.
(*e*) Adjusted as per Accountant-General's audited figures. (*f*) Direction charges, under A VIII (*c*) (2).
(*g*) Pay of Draftsman. (*h*) Includes pay of Surveyor and Draftsman. (*i*) Less than one square mile.
(*j*) Expenditure under Direction. (*k*) Charges under A-VIII (*c*) (1) and (2) in Parlakimedi maliahs.

Statement of Forest areas surveyed and under survey during the year 1911–1912—*cont.*

District.	Areas surveyed and under survey during the year 1911–1912.															
	Special Surveys—Maps on 2-inch scale or over, by Survey of India or Madras Survey.								Ordinary, included in Topographical programme of Survey of India or in District Surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of years.	Total cost.
	Previous.	Of year.	Previous.	Of year.					Previous.	Of year.	Previous.	Of year.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Reserved forests and reserved lands.																
Western Circle.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.
South Canara ..	..	..	718 ‡ 1	..	..	592 and 25 linear miles.	..	7,390	..	..	..	77	†	..	..	..
Malabar, North ..	..	..	155	..	..	158 and 3 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Do. South ..	1	..	108 (*a*) 55	..	..	130	..	..	..	..	2	..	..	..	..	..
The Nilgiris ..	..	..	502	..	..	..	..	..	..	..	..	..	..	..	..	..
Kollegal	..	..	446 (*a*) 246	..	..	319	..	7,574	..	..	..	..	..	..	..	..
Coimbatore, North ..	..	..	895	..	..					..	* 26	..	..	..	..	..
Do. Central	..	..	291 (*a*) 48	..	..	7	..	..	..	..	* 16	..	..	..	..	..
Do. South ..	..	..	(*b*) 447	..	..						* 7					
Total ..	1	..	3,563 (*a*) 349	..	..	1,206 and 28 linear miles.	..	22,354	..	..	51	77	..	..	..	..
Grand Total ..	68	..	13,702	..	55,584	3,138 28 linear villages.	..	33,681	..	..	1,201	77	..	320	..	..

* Areas for which final maps have been prepared by the Madras Survey.

† The cost is given as Rs. 6,594 which includes the cost of survey of 73 square miles in Coorg forests. The whole cost is debited to Survey of India.

‡ Surveyed during 1908–09 and not previously reported.

(*a*) Reserved lands.

(*b*) One hundred and thirty square miles resurveyed on 2-inch scale during 1909–1910 and 9 square miles during 1911–1912.

Statement of Forest areas surveyed and under survey during the year 1911-1912—*cont.*

District.	Areas surveyed and under survey during the year 1911-1912—*cont.*								Areas remaining to be taken under survey.	Total forest area at end of year, as per Form No. 65.	Cost.		
	Chain and Compass or other Surveys by Local Officers.												
	With interior details.					Boundary Surveys.							
	4-inch or over.		Under 4-inch.										
	Previous.	Of year.	Previous	Of year.	Total cost.	Previous.	Of year.	Total cost.			Previous.	Of year.	Entire cost of all surveys to end of the year.
	18	19	20	21	22	23	24	25	26	27	28	29	30
Reserved forests and Reserved lands—cont.													
Western Circle.	S. M.	S. M.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	S. M.	S. M.	RS.	RS.	RS.
South Canara ..	..	..	..	..	..	906	..	..	1	797 (a) 98	58,342	398	58,740
Malabar, North ..	..	..	..	..	..	..	6	..	107	262	13,713	588	14,301
Do. South ..	..	..	..	..	..	183	..	..	..	108 (a) 55	2,476	419	2,895
The Nilgiris ..	..	..	..	..	..	..	..	..	(e) 58	478 (a) 82	3,506	391	3,897
Kollegal	..	..	..	..	..	..	3 linear miles.	..	1 12	447 (a)258	97,332	1,104 488	98,924
Coimbatore, North ..	..	..	..	..	..	..	1	..	..	921	..		
Do. Central ..	..	..	..	..	..	..	..	..	..	307 (a)48	12,351	695	
Do. South ..	..	..	..	..	..	..	2	..	..	454	..	744	13,790
Total ..	..	..	..	..	..	1,089	9 and 3 linear miles.	..	179	3,774 (a) 541	1,87,720 (c) + 69 (d)12,476	4,827	1,92,547 (c) +69 (d) 12,476
Grand total ..	663	48	26	..	2,832	4,492 30 villages.	63 65 villages 3 linear miles.	3,961	1,506	19,439	5,33,902	24,880	5,58,782

(a) Reserved lands.
(c) Charges included under Direction in 1906-1907.
(d) Survey of India charges in 1906-1907.
(e) Reserves of less than one square mile in extent.

Annual Form No. 69.

Forest Department, Madras Presidency.

Progress made in working-plans during 1911–1912.

District.	Areas for which working-plans have been completed and approved by the Board.		Areas for which working-plans are being compiled or have been compiled but not sanctioned		Areas for which working-plans have still to be taken in hand.	Total forest areas as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
Ganjām	(*a*) 442	..	..	..	197	639	..	
Vizagapatam ..	145	..	(*b*) 22	6	140	313	..	
Gōdāvari, Upper ..	..	..	225	..	203	428	..	
Gōdāvari, Lower ..	240	..	55	..	187	482	..	
Kistna	58	..	(*b*) 157	..	67	282	..	
Kurnool, East ..	..	..	..	..	1,001	1,001	..	
Do. South ..	114	1	..	391	272	778	..	
Do. West ..	427	..	..	31	400	858	..	
Total ..	1,426	1	459	428	2,467	4,781	..	
Central Circle.								
Bellary	259	..	105	..	326	690	..	
Anantapur ..	434	..	..	..	328	762	..	
Guntūr	41	..	..	164	609	814	..	
North Cuddapah ..	158	..	272	..	305	735	..	
East Cuddapah ..	337	..	..	40	706	1,083	..	
Nellore	*118	2	268	..	353	741	..	
Chingleput ..	†209	..	..	..	(*c*)	209	..	
Chittoor	527	..	..	..	314	841	..	
Total ..	2,083	2	645	204	2,941	5,875	..	
Southern Circle.								
North Vellore ..	(*e*) 497	..	..	..	(*d*) 2	499	..	
South do. ..	685	..	..	(*e*) 60	..	745	..	
South Arcot	132 (*f*) +1	22	(*g*) 152	10	28	345	..	
North Salem ..	161	..	677	..	..	838	..	
South do. ..	453	..	..	..	134	587	..	
Trichinopoly *cum* Tanjore.	190	15	39	..	115	359	..	
Madura	356	..	..	..	310	666	..	
Tinnevelly ..	169 (*h*) +1	5	..	..	181	356	..	
Rāmnād	71	..	..	..	2	73	..	
Total ..	2,716	42	868	70	772	4,468	..	

* Includes four square miles transferred from Chingleput.

† Excludes 4 square miles of Forests in Ugumudy North, transferred to Nellore.

(*a*) Difference due to adoption of area on published maps of India Survey Party. Agastinowgam working-plan cancelled (only ½ sq. mile).

(*b*) Difference of 1 sq. mile due to rounding of figures.

(*c*) Below 1 square mile.

(*d*) Consists of 6 plantations.

(*e*) The fact that working-plan was still to be prepared for Thenmalai Javadis was omitted to be noted in the last year's return.

(*f*) Added with reference to the area given in the sanctioned working-plan.

(*g*) Revised figure furnished by the Collector.

(*h*) According to details furnished by the Collector.

PROGRESS made in working-plans during 1911–1912—*cont.*

District.	Areas for which working-plans have been completed and approved by the Board.		Areas for which working-plans are being compiled or have been compiled but not sanctioned.		Areas for which working-plans have still to be taken in hand.	Total forest area, as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
				Reserved forests.				
Western Circle.	SQ. MLS.		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
South Canara	589	..	2	..	206	797	..	
Malabar, North	178	..	7	..	77	262	..	
Do. South	7	..	..	..	97	104	..	
The Nilgiris	103	..	..	6	369	478	..	
Kollegal	43	..	..	20	384	447	..	
Coimbatore, North ..	289	..	..	..	632	921	..	
Do. Central ..	220	..	..	..	87	307	..	
Do. South ..	75	..	..	..	352	427	..	
Total ..	1,504	..	9	26	2,204	3,743	..	
				Reserved lands.				
South Canara	..	..	..	..	98	98	..	
Malabar, North	..	..	..	..	*	*	..	
Do. South	..	..	..	..	35	35	..	
The Nilgiris	..	..	..	..	6	6	..	
Kollegal	10	..	..	..	248	258	..	* Less than one square mile.
Coimbatore, North ..	..	..	..	..	*	*	..	
Do. Central ..	..	..	..	..	48	48	..	
Do. South ..	..	..	..	..	*	*	..	
Total ..	10	..	..	..	435	445	..	
				Leased forests.				
Malabar, South	24	..	..	..	..	24	..	
The Nilgiris	76	..	..	..	..	76	..	
Coimbatore, South ..	..	..	..	..	27	27	..	
Total ..	100	..	..	..	27	127	..	
Grand Total ..	1,614	..	9	26	2,666	4,315	..	
Grand Total for the Presidency ..	7,839	45	1,981	728	8,846	19,439	..	

ANNUAL.

Forest Department,.

COMMUNICATIONS.

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new works.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		Rs.		Mls.	Rs.	Rs.
Direction ..	....	..	....	..	..	..
	Total, Direction ..	..		..	..	..
Ganjām ..	Rest-houses	2,115	Cart-roads	14⅛	7,091	..
	Houses for subordinate establishment	8,004	Bridge	..	219	..
	Others	2,391		14⅛	7,310	19,820
			Add VII (*a*)	..	..	386
	Total, Ganjam ..	12,510		14⅛	7,310	20,206
Vizagapatam.	Rest-houses	978	Roads	..	..	1,967
	Houses for subordinate establishment	839				
	Others	150				
	Total, Vizagapatam ..	1,967		..	..	1,967
Gōdāvari, Upper.	Rest-houses	1,483	Cart-roads	..	200	..
	Houses for subordinate establishment	473				
	Others	191	....	..	200	2,347
			Add VII (*a*)	..	..	758
	Total, Gōdāvari, Upper ..	2,147		..	200	3,105
Gōdāvari, Lower.	Rest-houses	1,656	Ghat-road	1½	3,235	..
	Houses for subordinate establishment	629	Cart-roads	5⅞	1,115	..
	Others	624		7⅜	4,350	7,259
			Add VII (*a*)	..	..	344
	Total, Gōdāvari, Lower ..	2,909		7⅜	4,350	7,603

FORM No. 70.

Madras Presidency.

and Buildings

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS.	RS.	RS.
Deduct as per Accountant-General's audited figure being the amount wrongly adjusted during last financial year (1910–1911) to A-VII (*b*) instead B-III (*c*) and rectified during the current forest year (1911–1912).	— 12	....	..	..	— 12
	— 12		..	..	— 12
Rest-houses	1,523	Cart-roads	34	455	..
Houses for subordinate establishment	145	Ghat-roads	1⅞	11	..
Others	48		35⅞	466	..
	1,716	Add pay of establishment	..	1,574	..
Add pay of establishment	2,437		35⅞	2,040	..
	4,153	Deduct as per Accountant-General's audited figures..	..	— 281	..
Deduct as per Accountant-General's audited figure	— 7		35⅞	1,759	5,905
		Add A-VII (*c*)	..	..	157
		Add as per Accountant-General's audited figure	..	..	+ 268
			..	..	425
	4,146		35⅞	1,759	6,330
Rest-houses	342	Cart-roads	33	302	1,720
Houses for subordinate establishment	139	A-VII (*c*)			
Others	44	Add as per Accountant-General's audited figure	..	..	+ 2
	525				
Add pay of establishment	892				
Add as per Accountant-General's audited figure	+ 1				
	1,418		33	302	1,722
Rest-houses	1,029	Cart-roads	4	98	..
Houses for subordinate establishment	294				
Others	327				
	1,650		4	98	..
Add pay of establishment	1,694	Amount expunged	..	— 5	..
	3,344		4	93	2,890
Deduct amount expunged	— 548				
Balance	2,796				
Add as per Accountant-General's audited figure	+ 1				
	2,797		4	93	2,890
Rest-houses	52	Cart-roads	58⅛	2,839	..
Houses for subordinate establishment	598	Add as per Accountant-General's audited figure	..	+ 11	..
Others	551		58⅛	2,850	4,942
	1,201				
Add pay of establishment	926	Add A-VII (*c*)	..	..	259
	2,127	Deduct as per Accountant-General's audited figure	..	..	— 5
Deduct as per Accountant-General's audited figure	— 35		..	..	254
	2,092		58⅛	2,850	5,196

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		RS.		MLS. FUR.	RS.	RS.
Kistna ..	Rest-houses	400	Cart-roads	8·0½	2,149	3,552
	Houses for subordinate establishment	62				
	Others	941				
	Total, Kistna ..	1,403		8·0½	2,149	3,552
Kurnool, East.	Rest-houses	1,459	Roads	..	..	6,822
	Houses for subordinate establishment	3,607				
	Others	1,756				
	Total, Kurnool, East ..	6,822		..	..	6,822
Kurnool, South.	Rest-houses	250	Cart-roads	..	348	10,668
	Houses for subordinate establishment	6,707				
	Others	3,363				
	Total, Kurnool, South ..	10,320		..	348	10,668
Kurnool, West.	Rest-houses	815	Ghât-road	16½	327	..
	Houses for subordinate establishment	3,783	Cart-roads	2	2,495	..
	Others	2,145		18½	2,822	9,565
	Total, Kurnool, West ..	6,743		18½	2,822	9,565

...and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle —cont.					
	RS.		MLS.	RS.	RS.
Rest-houses	110	Hill or Ghat roads	10	200	..
Houses for subordinate establishment	497	Cart-roads	CHS. 6	33	..
Others	244	Bridle-paths	M. F. 1 1	50	..
	851		M. F. CH. 11 1 6	283	1,641
Add pay of establishment	508	A-VII (*c*)			
	1,359	Add as per Accountant-General's audited figure	..	..	+ 883
Deduct as per Accountant-General's audited figure	— 1				
	1,358		11 1 6	283	2,524
Rest-houses	82	Ghât-roads	6	5,364	..
Houses for subordinate establishment	25	Cart-roads	27½	3,606	..
Others	19		33½	8,970	..
	126	Add as per Accountant-General's audited figure	..	+ 18	..
Add pay of establishment	311		33½	8,988	9,425
		Add A-VII (*c*)	..	..	66
		Add as per Accountant-General's audited figure	.	..	+ 1
			..	..	67
	437		33½	8,988	9,492
Rest-houses	141	Ghât-roads	M. F. CH. 7 5 8	2,927	..
Houses for subordinate establishment	178	Cart-roads	11 7 6	3,534	..
Others	529		19 4 14	6,461	7,971
	848				
Add pay of establishment	662	Add A-VII (*c*)	..	..	1,805
	1,510		19 4 14	6,461	9,776
		Cart-roads	32⅛	3,532	..
Rest-houses	16				
Houses for subordinate establishment	327	Add pay of establishment	..	+ 7	..
Others	42	Add as per Accountant-General's A.C.X. No. 93, 18th August 1911	..	+ 11	..
			..	+ 18	..
	385		32⅛	3,550	..
Add pay of establishment	517				
Add as per Accountant-General's audited figure	+ 45	Deduct as per Accountant-General's audited figure	..	— 7	..
	947		32⅛	3,543	4,426
		Add A-VII (*c*)	..	..	..
Deduct cash recoveries	— 24	Add as per Accountant-General's audited figure	..	..	+ 1,790
Deduct as per Accountant-General's A.C.X. 228, 12th October 1911 ..	— 40				
	— 64				
	883		32⅛	3,543	6,216

Communications.

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		Rs.		Mls.	Rs.	Rs.
Total, Northern Circle.	Rest-houses	9,156	Ghât-roads	18	3,562	..
	Houses for subordinate establishment	24,104	Cart-roads	30 1/16	13,398	.
	Others	11,561	Bridge	..	219	..
				48 1/16	17,179	62,000
			A-VII (*o*)	..	..	1,488
	Total, Northern Circle ..	44,821		48 1/16	17,179	63,488
						Central
Bellary ..	Head-quarter houses	6,145	Cart-roads	5	23	..
	Rest-houses	4,614	Bridle-paths	..	326	..
	Houses for subordinates ..	2,684	Deduct cash recovery	..	—1	..
	Others	358	....	..	..	..
	Cost of establishment ..	581	....	..	..	..
	Add as per Accountant-General's audited figures.	+17	....	..	..	..
	Total, Bellary ..	14,399	Total ..	3	348	14,747
Anantapur ..	Rest-houses	7,947	....	..	..	..
	Others	236	....	..	..	..
	Cost of establishments	1,108	....	..	..	..
	Total, Anantapur ..	9,291	Total ..	..	..	9,291
Guntûr ..	Rest-houses	362	....	..	..	..
	Houses for subordinates ..	76	....	..	..	..
	Others	1,333	....	..	..	..
	Total, Guntur ..	1,771	Total ..	..	..	1,771
North Cuddapah.	Head-quarter houses	3,721	....	..	..	..
	Rest-houses	2,691	....	..	..	..
	Others	575	....	..	..	..
	Cost of establishment	433	....	..	..	..
	Deduct as per Accountant-General's audited figures.	—1	....	..	..	..
	Total, North Cuddapah ..	7,419	Total ..	..	..	7,419
East Cuddapah.	Head-quarter houses	1,905	Cart-roads	..	8	..
	Rest-houses	890	....	..	..	..
	Houses for subordinates ..	31	....	..	..	..
	Total, East Cuddapah ..	2,826	Total ..	..	8	2,834

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		M. F. CH.	Rs.	Rs.
Rest-houses	3,295	Ghat roads	25 4 8	8,502	..
Houses for subordinate establishment ..	2,203	Cart-roads	201 3 12	14,399	..
Others	1,804	Bridle-paths	1 1 0	50	..
	7,302		227 0 20	22,951	..
Add pay of establishment	7,947	Add pay of establishment	..	1,581	..
Add as per Accountant-General's audited figure	+ 4	Add as per Accountant-General's A.C.X. No. 93, 18th August 1911	..	+ 11	..
	15,253		..	24,543	..
		Deduct as per Accountant-General's audited figure	..	— 259	..
Deduct amount expunged	— 560	Deduct amount expunged	..	— 5	..
,, cash recoveries	— 24				
,, as per Accountant-General's A.C.X. No. 228, 12th October 1911..	— 40		..	— 264	..
	— 624		227 0 20	24,279	38,908
		Add A-VII (*o*)	..	..	2,287
		Add as per Accountant-General's audited figure	..	..	+ 2,939
	14,629		..	..	5,226
			227 0 20	24,279	44,134
Circle.					
Head-quarter houses	65	Cart-road	12	250	..
Rest-houses	2,333		12	250	3,050
Houses for subordinates	209	Add A-VII (*o*) ..	..	..	2,241
Others	193		..	..	..
		....	..	..	..
Total ..	2,800	Total ..	12	250	5,291
Head-quarter houses	192	Cart-roads	9	747	..
Rest-houses	472	Bridle-path	4	47	..
Houses for subordinates	72	Others	..	311	..
Others	10	....	13	1,105	1,851
		Add A-VII (*o*) ..	..	..	2,054
Total ..	746	Total ..	13	1,105	3,905
Head-quarter houses	622	....	..	..	..
Rest-houses	2,155	....	..	..	..
Houses for subordinates	62	....	..	..	2,857
Others	18	Add A-VII (*o*) ..	..	..	1,295
Total ..	2,857	Total ..	..	..	4,152
Head-quarter houses	50	Cart-roads	..	245	..
Rest-houses	702	Bridle-paths..	..	123	..
Others	212	Deduct as per Accountant-General's audited figures	..	— 2	..
		....	..	366	1,330
		Add A-VII (*o*) ..	..	..	137
Total ..	964	Total ..	..	366	1,467
Head-quarter houses	29	Cart-roads	..	136	..
Rest-houses	324	Bridle-paths	..	353	..
Houses for subordinates	83	....	..	..	..
Others	444	....	..	..	..
Total ..	880	Total ..	..	489	1,369

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		Rs.		Mls.	Rs.	Rs.
Nellore ..	Head-quarter houses	2,316	....	..	..	..
	Rest-houses	2,986	....	..	..	..
	Houses for subordinates ..	781	....	..	..	..
	Deduct as per Accountant-General's audited figures ..	— 212	....	..	..	..
	Total, Nellore ..	5,871	Total ..	..	..	5,871
Chingleput ..	Rest-houses	907	Bridle-paths	..	87	..
	Cost of establishments	493	....	..	..	..
	Total, Chingleput ..	1,400	Total ..	..	87	1,487
Chittoor ..	Rest-houses	104	Cart-roads	7	1,168	..
	Others	68	Bridle-paths	1	19	..
	Add as per Accountant-General's audited figures	740	....	..	..	..
	Total, Chittoor ..	912	Total ..	8	1,187	2,099
Circle, Total..	Head-quarter houses	14,087	Cart-roads	..	1,199	..
	Rest-houses	20,501	Bridle-paths	..	432	..
	Houses for subordinates ..	3,572	Deduct cash recovery	..	—1	..
	Others	2,570	....	..	..	..
	Cost of establishment	2,615	....	..	..	..
	Add variations as per Account ant-General's figures	544	....	..	..	..
	Total ..	43,889	Total ..	..	1,630	45,519
						Southern
North Vellore.	....	..	Ghat-roads	6	1,300	1,300
	Total ..	..	Total ..	6	1,300	1,300
South Vellore.	Rest-houses	845	Ghat-roads	12	12,980	15,122
	Houses for subordinate establishments	370	Cart-roads	11	718	..
	Others	49				
	Add as per Accountant-General's audited figure.	111	Others	6	49	..
	Total ..	1,375	Total ..	29	13,747	15,122
South Arcot ..	Head-quarter houses	60	....	..	..	4,497
	Rest-houses	1,982				
	Houses for subordinate establishments	2,582				
	Others	66				
		4,690				
	Deduct cash recovery	193				
	Total ..	4,497	Total ..	..	..	4,497

and Buildings—*cont.*

Repairs executed during the year.						
Buildings.			Roads and paths.			Total expended on repairs.
Nature of repairs.		Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8		9	10	11	12	13
Circle—cont.						
		Rs.		Mls.	Rs.	Rs.
Rest-houses		148	....	..	..	..
Houses for subordinates		5	....		..	..
Others		17	....	..	..	170
		..	Add A-VII (*c*) ..	..	..	2,023
	Total ..	170	Total ..	..	..	2,193
Rest-houses		147	Cart-roads	9	289	..
Houses for subordinates		47	Ghat-roads	3	160	..
Others		40	....	..	..	..
....			....	12	449	683
			Add A-VII (*c*) ..	..	..	4
	Total ..	234	Total ..	12	449	687
Head-quarter houses		75	Cart-roads	4	134	..
Rest-houses		722	Bridle-path	4½	50	..
Houses for subordinates		187	....	..	..	..
Others		10	....	..	184	1,178
....			Add A-VII (*c*) ..	..	..	91
	Total ..	994	Total ..	8½	184	1,269
Head-quarter houses		1,033	Cart-roads	..	1,800	..
Rest-houses		7,003	Ghat-roads	..	160	..
Houses for subordinates		665	Bridle-paths	..	573	..
Others		944	Others	..	311	..
....				..	2,844	..
		..	Deduct variations as per Accountant-General's figures.	..	—2	12,487
		..	Add A-VII (*c*) ..	..	..	7,845
	Total ..	9,645	Total ..	..	2,842	20,332
Circle.						
Head-quarter houses		12	Bridle-paths	3	20	1,073
Rest-houses		67	Cart-roads	30	302	..
Houses for subordinate establishments		52				
Others		140				
		271				
Add pay of establishment		480				
	Total ..	751	Total ..	33	322	1,073
Head-quarter houses		31	Bridle-paths	2	7	2,442
Rest-houses		403	Ghat-roads	5	1,390	
Houses for subordinate establishments		1	Cart-roads	6	59	
Others		8		13	1,456	
		443	Deduct as per Accountant-General's audited figure.	..	— 20	
Add pay of establishments		563	Add A-VII (*c*) ..	..	..	839
	Total ..	1,006	Deduct as per Accountant-General's audited figure.	..	..	— 104
Head-quarter houses		10	Total ..	13	1,436	3,177
Rest-houses		16				
Houses for subordinate establishments		125				700
Others		16				
		167	Add A-VII (*c*) ..			461
Add pay of establishment		533	Deduct as per Accountant-General's audited figure.	..	..	— 1
	Total ..	700	Total ..	..	..	1,160

Communications.

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		Rs.		Mls.	Rs.	Rs.
North Salem ..	Rest-houses	824	Cart-roads	56	3,296	5,595
	Houses for subordinate establishments	1,081				
	Others	394				
	Total ..	2,299	Total ..	56	3,296	5,595
South Salem ..	Head-quarter houses	510	Bridle-paths	9	160	4,562
	Rest-houses	1,486				
	Houses for subordinate establishments	1,686				
	Others	230				
		3,912				
	Add pay of establishment ..	490				
	Total ..	4,402	Total ..	9	160	4,562
Trichinopoly.	Rest-houses	1,282	....	..	..	1,282
	Total ..	1,282	Total ..	..	..	1,282
Madura ..	Rest-houses	2,546	Bridle-paths	8	1,576	9,143
	Houses for subordinate establishments	4,208	Bridges	..	569	..
	Others	244				
	Total ..	6,998	Total ..	8	2,145	9,143
Ramnad ..	Houses for subordinate establishments	445	....	..	..	445
	Total ..	445	Total ..	..	..	445
Tinnevelly ..	Rest-houses	576	Ghat-roads	¼	154	5,599
	Houses for subordinate establishments	2,176	Bridle-paths	1	* 29	..
			Cart-roads	12	2,279	..
			Dam	..	27	..
			Others	..	358	..
	Total ..	2,752	Total ..	13¼	2,847	5,599
Total, Southern Circle.	Head-quarter houses	570	Ghat-roads	18¼	14,434	47,545
	Rest-houses	9,541	Bridle-paths	18	1,765	..
	Houses for subordinate establishments	12,548	Bridges		569	..
	Others	983	Cart-roads	79	6,293	..
			Dam	..	27	..
			Others	6	407	..
		23,642				
	Add pay of establishment ..	490				
		24,132				
	Deduct cash recovery	193				
	Add as per Accountant-General's audited figures ..	111				
	Total ..	24,050	Total ..	121¼	23,495	47,545

* Cost of preliminary tracing of the path.

and Buildings—*cont.*

Repairs executed during the year.						
Buildings.			Roads and paths.			Total expended on repairs.
Nature of repairs.		Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8		9	10	11	12	13
Circle—cont.						
		Rs.		Mls.	Rs.	Rs.
Head-quarter houses		65	Cart-roads	64	1,050	1,838
Rest-houses		281				
Houses for subordinate establishments		105				
Others		156				
		608	Add A-VII (*c*)	..	..	966
Add pay of establishment		180	Total ..	64	1,050	2,804
	Total ..	788				
				..	..	210
Rest-houses		139	Add A-VII (*c*) ..	..	..	620
Houses for subordinate establishments.		71				
	Total ..	210	Total ..	..	..	830
Head-quarter houses		194	Ghat-roads	7	344	4,049
Rest-houses		1,264	Bridle paths	42	1,250	
Others		126	Cart-roads	10	289	
		1,584		59	1,883	
Add pay of establishment		785	Deduct cash recovery	..	193	
		2,369	Deduct as per Accountant-General's audited figure.	..	—1	
Deduct cash recovery		9	Add A-VII (*c*) ..	..	..	16
	Total ..	2,360	Total ..	59	1,689	4,065
Head-quarter houses		292	Bridle paths	30	853	8,381
Rest-houses		494	Cart-roads	61	5,613	
Houses for subordinate establishments		166		91	6,466	
		952	Deduct as per Accountant-General's audited figure	..	1	
Add pay of establishment		964	Add A-VII (*c*) ..	..	..	255
	Total ..	1,916	Total ..	91	6,465	8,636
Head-quarter houses		30	Bridle paths	20	468	678
Rest-houses		62	Cart-roads	3	47	
Houses for subordinate establishments		64		23	515	
			Add as per Accountant-Genaral's audited figures	..	+ 7	
			Add A-VIII (*c*)	..	..	2
	Total ..	156	Total ..	23	522	680
Head-quarter houses		298	Ghat-roads	¼	132	2,127
Rest-houses		480	Bridle-paths	17	296	
Houses for subordinate establishments		237	Cart-roads	36	668	
Others		15	Others		7	
				53¼	1,103	
			Deduct as per Accountant-General's audited figures	..	— 6	
			Add A-VII (*c*)	..	..	181
	Total ..	1,030	Total ..	53¼	1,097	2,308
Head-quarter houses		932	Ghat-roads	12¼	1,866	21,498
Rest-houses		3,206	Bridle-paths	114	2,894	
Houses for subordinate establishments		821	Cart-roads	210	8,028	
Others		462	Others	..	7	
		5,421		336¼	12,795	..
Add pay of establishment		3,505	Deduct cash recoveries	..	193	..
		8,926		336¼	12,602	..
Deduct cash recoveries		9	Deduct as per Accountant-General's audited figures	..	— 21	..
			Add A-VII (*c*)	..	..	3,340
			Deduct as per Accountant-General's audited figures	..	..	— 105
	Total ..	8,917	Total ..	336¼	12,581	24,733

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Western
		Rs.		MLS.	Rs.	Rs.
South Canara..	Head-quarter houses .. . Others	1,170 19	Cart roads	13	2,755	..
	Total ..	1,189	Total ..	13	2,755	3,944
Malabar, North.	Rest-houses .. .. .. Houses for subordinate establishments.	729 3,516	Cart roads .. .. .. Bridges .. .. Others	1	188 2,785 156 *+800	.. .. ..
	Total ..	4,245	Total .	1	3,929	8,174
Malabar, South.	Head-quarter houses .. .. Rest-houses .. .. .. Houses for subordinate establishments. Others	997 3,666 162 21	Cart roads	4	510	..
	Total ..	4,846	Total ..	4	510	5,356
The Nilgiris ..	Rest-houses .. .. .. Houses for subordinate establishments. Others	957 1,588 819	Cart roads .. .. .. Bridle paths .. .. .. Ghat roads	2 3 6	2,693 201 170	.. .. ..
	Total ..	3,364	Total ..	11	3,064	6,428
Kollegal ..	Rest-houses .. .. .. Houses for subordinate establishments.	5,789 921	Cart roads .. .. .. Bridle paths	11 ..	4,432 6	.. ..
	Total ..	6,710	Total ..	11	4,438	11,148
Coimbatore, North.	Head-quarter houses .. .. Rest-houses .. .. .. Houses for subordinate establishments. Others	959 4,455 1,649 505	Cart roads	31	2,327	..
	Total ..	7,568	Total ..	31	2,327	9,895
Coimbatore, Central.	Head-quarter houses .. .. Rest-houses .. .. .. Houses for subordinate establishments. Others	723 3,086 1,888 491	Cart roads .. .. .. Bridle paths .. .. .. Others	2 3 2	1,707 24 7	.. .. ..
	Total ..	6,188	Total ..	7	1 738	7,926

* Expenditure debited under Direction.

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		Mls.	Rs.	Rs.
Head-quarter houses	352	Cart roads	14	363	1,942
Rest-houses	135	Others	..	489	
Houses for subordinate establishments.	169	Deduct cash recovery of service payments.	..	— 1	
Others	106	....	..	..	..
Add pay of watchers	329	Add A-VII (*c*) ..	..	..	486
Total ..	1,091	Total ..	14	851	2,428
Head-quarter houses	577	Cart roads	109	2,394	5,234
Rest-houses	580	Bridle-paths	6	395	
Houses for subordinate establishments.	531	Bridges	..	34	
Others	173	Others	20	182	
Add pay of watchers, etc.	418	....	..	..	..
		Add A-VII (*c*) ..	..	..	1,061 † + 1
Total ..	2,229	Total ..	135	3,005	6,296
Head-quarter houses	269	Cart roads	39	2,545	3,496
Rest-houses	89	Bridle-paths	73	206	
Houses for subordinate establishments.	248	Bridges	..	24	
Others	15	....	..	..	..
		Add A-VII (*c*) ..	..	..	518
Total ..	721	Total ..	112	2,775	4,014
Rest-houses	192	Cart roads	41	16,966	18,473
Houses for subordinate establishments	1,037	Bridle-paths	3	143	
Others	135		..	† —1	
..	† +1				
		Add A-VII (*c*) ..	..	..	408
Total ..	1,365	Total ..	44	17,108	18,881
Rest-houses	1,097	Cart roads	26	3,799	5,584
Houses for subordinate establishments	145	Ghat roads	1	182	
Others	39				
Add pay of watchers	322	Add A-VII (*c*) ..	..	..	616
			..	..	† —2
Total ..	1,603	Total ..	27	3,981	6,198
Rest houses	180	Cart roads	43	1,596	8,176
Houses for subordinate establishments	7	Ghat roads	45	5,392	
Others	301				
Add pay of watchers	684	Others	3	37	
Deduct cash recovery of service payments	—19		..	† —1	
	† —1	Add A-VII (*c*) ..	..	..	863
Total ..	1,152	Total ..	91	7,024	9,039
Head-quarter houses	34	Cart roads	17	1,549	2,058
Rest-houses	81	....	..	..	..
Houses for subordinate establishments	248	....	..	..	..
Others	146	....	..	..	..
		Add A-VII (*c*) ..	..	..	94
Total ..	509	Total ..	17	1,549	2,152

† Added or deducted as per Accountant-General's audited figures.

Communications.

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Western
		Rs.		Mls.	Rs.	Rs.
Coimbatore, South.	Head-quarter houses	405	Others	..	124	..
	Rest-houses	2,853				
	Houses for subordinate establishments.	517				
	Others	456				
	Total ..	4,231	Total ..	..	124	4,355
Direction ..	....	..	....	..	..	..
Total, Western Circle.	Head-quarter houses	4,254	Cart roads	64	14,612	..
	Rest-houses	21,535	Bridle-paths	6	231	..
	Houses for subordinate establishments.	10,241	Ghat roads	6	170	..
			Bridges		2,785	..
	Others	2,311	Others	2	1,087	..
	Total ..	38,341	Total ..	78	18,885	57,226
Total, Presidency.	Head-quarter houses	*19,098	Ghat roads	44	18,166	2,12,478
	Rest-houses	60,733	Cart roads	173	35,502	
	Houses for subordinate establishments.	50,465	Bridle-paths	24	2,428	
			Bridges, etc.	8	5,094	
	Others	17,425				
		1,47,721				
	Add pay of establishment ..	3,105				
		1,50,826				
	Add as per Accountant-General's audited figures.	655				
		1,51,481				
	Deduct cash recovery	193				
	Total ..	1,51,288	Total ..	249	61,190	2,12,478

* Includes Rs. 187 appertaining to Parlakimedi Maliahs.

and Buildings—*cont.*

Repairs executed during the year.						
Buildings.		Roads and paths.				Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.		
8	9	10	11	12	13	
Circle—cont.						
	RS.		MILES.	RS.	RS.	
Head-quarter houses	73	Cart roads	16	4,617		
		Bridle-paths	25	80		
Rest-houses	270	Ghat roads	4	861		
Houses for subordinate establishments	1,035	Bridges	..	135	9,908	
Others	924	Others	25	1,262		
Add pay of watchers	411	Pay of temporary establishment	..	240		
			..	..		
		Add A-VII (*o*) ..	..	..	1,579 † —1	
Total ..	2,713	Total ..	70	7,195	11,486	
Others	56	Others	..	68	124	
		Add A-VII (*o*) ..	..	..	112	
Total ..	56	Total ..	..	68	236	
Head-quarter houses	1,305	Cart roads	305	33,829		
Rest-houses	2,574	Bridle-paths	107	824		
Houses for subordinate establishments	3,520	Ghat-roads	50	6,435		
		Bridges	..	193		
Others	1,895	Others	48	2,038	54,995	
Add pay of watchers	2,164	Add pay of temporary establishment ..	..	240		
			510	43,559		
Deduct cash recovery of service payments	—19	Deduct cash recovery of service payments.	..	—1		
			..	* —2		
		Add A-VII (*o*) ..	..	..	5,737 † —2	
Total ..	11,439	Total ..	510	43,556	60,730	
Head-quarter houses	3,270	Ghat roads	88	17,066		
Rest-houses	16,078	Cart roads	717	58,056		
Houses for subordinate establishments.	7,209	Bridle paths	222	4,341		
Others	5,105	Bridges, etc.	48	2,549		
	31,662		1,075	82,012		
Add pay of establishments	13,616	Add pay of establishment	..	1,821	1,28,058	
Add as per Accountant-General's audited figures.	4	Deduct cash recovery, etc...	..	83,833		
		Deduct as per Accountant-General's audited figures.	..	199		
	45,282		..	206*		
Deduct cash recoveries	652		1,075	83,428	1,28,058	
		Add A-VII (*o*) ..	..	..	23,529	
Total ..	44,630	Total ..	1,075	83,428	1,51,587	

† Added or deducted as per Accountant-General's audited figures.

ANNUAL

Forest Department,

REGISTER of Breaches of

District.		Cases pending from 1910–1911.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Ganjám	A	* 49	4	114	12	10	140	189
	B	* 131	3	477	46	29	555	686
	C	..	53	61	..	..	114	..
	Total ..	180	(*b*) 60	(*c*) 652	(*d*) 58	(*e*) 39	809	875
Vizagapatam ..	A	* 33	1	107	23	8	139	172
	B	* 28	..	239	55	23	317	345
	C	..	7	..	..	..	7	..
	Total ..	61	8	346	78	31	463	517
Gódávari, Upper.	A	2	..	11	..	6	17	19
	B	7	..	18	4	22	44	51
	C	..	15	..	..	..	15	..
	Total ..	9	15	29	4	28	76	70
Gódávari, Lower.	A	* 29	1	29	9	4	43	72
	B	* 95	..	271	65	59	395	490
	C	..	..	3	..	..	3	..
	Total ..	124	1	303	74	63	441	562
Kistna	A	* 28	1	26	25	6	58	86
	B	* 60	..	224	252	8	484	544
	C	..	1	5	1	..	7	..
	Total ..	88	2	255	278	14	549	630
Kurnool, East ..	A	* 5	..	20	18	6	44	49
	B	* 26	..	78	113	48	239	265
	C	..	10	2	4	6	22	..
	Total ..	(*a*) 31	10	100	135	60	305	314
Kurnool, South ..	A	28	3	73	67	7	150	178
	B	61	1	132	74	8	215	276
	C	..	17	..	..	..	17	..
	Total ..	89	21	205	141	15	382	454
Kurnool, West ..	A	65	1	160	52	10	223	288
	B	42	1	157	122	32	312	354
	C	..	34	18	2	..	54	..
	Total ..	107	36	335	176	42	589	642

A = Cases taken to Court. B = Case compounded by

* The variations between the closing balance of 1910–1911 and

† Withdrawn under the orders of the District

(*a*) Twelve cases were by misapprehension omitted to be shown by the Collector in column

(*b*) Excludes 1 case belonging to the Parlakimedi Maliahs.

(*c*) Excludes 230 cases do.

(*d*) Do. 12 cases do.

(*e*) Do. 3 cases do.

FORM No. 71.

Madras Presidency.

Forest Rules during 1911–1912.

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE.						
113	441	10	29	123	470	66
405	1,506	..	..	405	1,506	127
..	..	..	..	† 154	512	
				..	..	..
(*f*) 518	1,947	10	(*g*) 29	528	1,976	193
				† 154	512	
137	412	4	11	141	423	31
222	521	..	..	222	521	98
..	..	..	..	† 25	66	
				..	..	..
359	933	4	11	363	944	129
				† 25	66	
6	20	..	..	6	20	13
32	75	..	..	32	75	16
..	..	..	..	† 3	5	
				..	..	..
38	95	..	..	38	95	29
				† 3	5	
48	110	1	7	49	117	23
324	838	..	..	324	838	120
..	..	..	..	† 46	109	
				..	..	..
372	948	1	7	373	955	143
				† 46	109	
70	294	7	19	77	313	9
429	1,201	..	..	429	1,201	82
..	..	..	..	† 33	65	
				..	..	..
499	1,495	7	19	506	1,514	91
				† 33	65	
39	89	2	5	41	94	8
222	627	..	..	222	627	20
..	..	..	..	† 23	84	
				..	..	..
261	716	2	5	263	721	28
				† 23	84	
135	414	13	19	148	433	30
159	428	..	..	159	428	27
..	..	..	..	† 90	186	
				..	..	..
294	842	13	19	307	861	57
				† 90	186	
192	502	21	59	213	561	75
166	436	..	..	166	436	71
..	..	..	..	† 117	324	
				..	..	..
358	938	21	59	379	997	146
				† 117	324	

District Forest Officer or Revenue Divisional Officer. C = Cases undetected.
these figures are due to transfers between heads A and B.
Forest Officer or Revenue Divisional Officer.
15 of the return for 1910–1911 and hence increase in opening balance for 1911–1912.
(*f*) Excludes 195 cases in which 677 persons were involved, in the Parlakimedi maliahs.
(*g*) Excludes 33 cases in which 98 persons were involved, in the Parlakimedi maliahs.

Register of Breaches of Forest

District.		Cases pending from 1910–1911.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN.
Total ..	A	239	11	540	206	57	814	1,053
	B	450	5	1,596	731	229	2,561	3,011
	C	..	137	89	7	6	239	..
	Grand Total ..	689	153	2,225	(a) 944	292	3,614	4,064
								CENTRAL.
Bellary	A	4	5	141	17	21	184	188
	B	43	16	448	378	36	878	921
	C	..	..	9	56	..	65	..
	Total ..	47	21	598	451	57	1,127	1,109
Anantapur ..	A	121	..	216	77	24	317	438
	B	..	1	306	155	18	480	480
	C	..	159	54	129	..	342	..
	Total ..	121	160	576	361	42	1,139	918
Guntur	A	60	..	149	189	1	339	399
	B	328	3	765	594	10	1,372	1,700
	C	..	..	..	..	..	..	..
	Total ..	‡ 388	3	914	783	11	1,711	2,099
Cuddapah, North ..	A	25	1	70	50	..	121	146
	B	15	..	140	71	2	213	228
	C	..	..	1	..	..	1	..
	Total ..	40	1	211	121	2	335	374
Cuddapah East..	A	§ 15	2	38	19	1	60	75
	B	§ 46	..	313	166	2	481	527
	C	..	..	10	2	..	12	..
	Total ..	61	2	361	187	3	553	602
Nellore	A	§ 208	..	216	162	4	382	590
	B	§ 186	..	750	525	10	1,285	1,471
	C	§ 13	..	113	133	2	248	..
	Total ..	407	..	1,079	820	16	1,915	2,061
Chingleput ..	A	7	..	14	11	2	27	34
	B	65	..	625	234	15	874	939
	C	..	5	..	..	..	5	..
	Total ..	72	5	639	245	17	906	973
Chittoor	A	43	1	181	158	8	348	391
	B	159	..	762	424	38	1,224	1,383
	C	..	134	..	..	..	134	..
	Total ..	202	135	943	582	46	1,706	1,774

A = Cases taken to Court B = Cases

† Withdrawn under the orders of the

(a) Corrected in the Board's office.

‡ Includes figures for unreserved

§ The differences in the figures between last year's closing balance and the

Rules during 1911–1912—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
740	2,282	58	149	798	2,431	255
1,959	5,632	..	..	1,959	5,632	561
..	..	..	..	† 491	1,351	
				..	..	..
2,699	7,914	58	149	2,757	8,063	816
				† 491	1,351	
CIRCLE.						
88	134	74	116	162	250	26 *
692	1,645	..	..	692	1,645	187
..	..	..	..	† 42	116	
				..	..	..
780	1,779	74	116	854	1,895	213
				† 42	116	
252	580	76	136	328	716	69
480	960	..	..	† 41	205	
..	..	..	..	480	960	..
				..	..	..
732	1,540	76	136	808	1,676	69
				† 41	205	
348	1,372	20	105	368	1,477	31
1,331	4,180	101	356	1,432	4,536	268
..	..	..	..	..	..	
1,679	5,552	121	461	1,800	6,013	299
105	277	18	72	131	365	15
		† 8	† 16			
162	481	13	71	175	552	53
..	..	..	..	..	..	..
267	758	39	159	306	917	68
66	179	3	9	69	188	6
402	803	..	..	402	803	92
..	..	..	..	† 33	83	..
				..	..	..
468	982	3	9	471	991	98
				† 33	83	
464	1,143	65	199	529	1,342	61
1,090	2,390	..	..	1,090	2,390	336
..	..	..	..	† 45	70	
				..	..	..
1,554	3,533	65	199	1,619	3,732	397
				† 45	70	
30	65	..	..	30	65	3
				† 1	1	
728	1,670	..	..	728	1,670	142
				† 69	125	
..	..	..	..	..	..	..
758	1,735	..	..	758	1,735	145
				† 70	126	
296	647	45	163	341	810	50
1,091	1,705	..	..	1,091	1,705	227
..	..	..	..	† 65	158	
				..	..	..
1,387	2,352	45	163	1,432	2,515	277
				† 65	158	

compounded by District Forest or Revenue Divisional Officers. C = Cases undetected.
District Forest Officer or Revenue Divisional Officer.
lands not exhibited last year.
opening balance are due to transfers between classes A and B

Register of Breaches of Forest

District.		Cases pending from 1910-1911.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								CENTRAL
Circle Total ..	A	483	9	1,025	683	61	1,778	2,261
	B	842	20	4,109	2,547	131	6,807	7,649
	C	13	298	187	320	2	807	..
	Grand Total ..	1,338	327	5,321	3,550	194	9,392	9,910
								SOUTHERN
								Reserved
North Vellore ..	A	80	2	165	132	14	313	393
	B	157 + *87	..	1,095	483	24	1,602	1,846
	C	..	76	10	10	..	96	..
	Total ..	237 + 87	78	1,270	625	38	2,011	2,239
South Vellore ..	A	113	8	264	47	16	335	448
	B	159 + *37	..	717	209	33	959	1,155
	C	..	71	7	3	4	85	..
	Total ..	272 + 37	79	988	259	53	1,379	1,603
South Arcot ..	A	107 — 10	..	324	163	13	500	597
	B	437 + 10	..	1,112	488	11	1,611	2,058
	C		8	62	4	3	77	..
	Total ..	544	8	1,498	655	27	2,188	2,655
North Salem ..	A	265 — 144	4	363	95	19	481	602
	B	102 + 144	1	215	113	16	345	591
	C	..	17	3	..	..	20	..
	Total ..	367	22	581	208	35	846	1,193
South Salem ..	A	129	2	104	20	2	128	257
	B	138	1	556	75	5	637	775
	C	..	56	39	..	..	95	..
	Total ..	267	59	699	95	7	860	1,032
Trichinopoly cum Tanjore.	A	35 + 2	..	31	20	..	51	88
	B ..	434 — 2 (*b*)— 49	..	1,758	639	29	2,426	2,809
	C	..	..	38	31	13	82	..
	Total ..	420	..	1,827	690	42	2 559	2,897
Madura	A	44	4	147	33	49	233	277
	B	333	..	622	405	53	1,080	1,413
	C	..	84	..	..	..	84	..
	Total ..	377	88	769	438	102	1,397	1,690

A = Cases taken to Court. B = Cases

* Relates to

† Withdrawn under the

(*a*) Number of persons for

(*b*) Ninty-three cases were wrongly shown to be

Rules during 1911-1912—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
1,649	4,397	301 † 8	800 † 16	1,958 † 42	5,213 206	261
5,976	13,834	114	427	6,090 † 254	14,261 552	1,305
..	..	..	..	..	..	..
7,625	18,231	415 + 8	1,227 † 16	8,048 † 296	19,474 758	1,566
CIRCLE.						
Forests.						
284	782	19	83	303	865	90
1,430	2,944	..	..	1,430 † 203	2,944 271	213
..	..	..	..	..	..	..
1,714	3,726	19	83	1,733 † 203	3,809 271	303
361	638	24	54	385 † 1	692 2	62
887 (*a*)	1,713	..	..	887 † 16	1,713 20	252
..	..	..	..	..	..	..
1,248	2,351	24	54	1,272 † 17	2,405 22	314
277	728	21	50	298 + 59	778 102	240
1,740	3,015	..	..	1,740 † 20	3,015 48	298
..	..	..	..	..	..	..
2,017	3,743	21	50	2,038 † 79	3,793 150	538
353	754	32	98	385	852	217
394	885	..	..	394 † 48	885 162	149
..	..	..	..	..	..	..
747	1,639	32	98	779 † 48	1,737 162	366
169	938	7	29	176	967	81
512	1,395	1	3	513 † 8	1,398 29	254
..	..	..	..	..	..	..
681	2,333	8	32	689 † 8	2,365 29	335
50	138	16	48	66	186	22
2,333	4,248	..	..	2,333 † 24	4,248 85	452
..	..	..	..	..	..	..
2,383	4,386	16	48	2,399 † 24	4,434 85	474
196	603	34	197	230	800	47
966	3,097	..	..	966 † 95	3,097 387	352
..	..	..	..	..	..	..
1,162	3,700	34	197	1,196 † 95	3,897 387	399

compounded. C = Cases undetected.
unreserved lands.
orders of the District Forest or Revenue Divisional Officers.
64 cases not available.
pending in Tanjore range instead of 43. Hence—49.

Register of Breaches of Forest

District.		Cases pending from 1910–1911.	New cases of the year.					Total cases.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								SOUTHERN
								Reserved
Tinnevelly cum Ramnad.	A	15	5	80	33	8	126	141
	B	204	..	773	391	26	1,190	1,394
	C	..	22	..	..	..	22	..
	Total ..	219	27	853	424	34	1,338	1,535
Total ..	A	636	25	1,478	543	121	2,167	2,803
	B	2,191	2	6,848	2,803	197	9,850	12,041
	C	..	334	159	48	20	561	..
		..	..	..	..	..	..	..
	Grand Total ..	2,827	361	8,485	3,394	338	12,578	14,844
								WESTERN
								Reserved
South Canara ..	A	(a) 18	27	67	13	18	125	143
	B	(a) 161	34	795	157	70	1,056	1,217
	C	..	151	..	..	..	151	..
	Total ..	179	212	862	170	88	1,332	1,360
Malabar, North.	A	8	1	..	26	2	29	37
	C	..	5	.	..	..	5	..
	Total ..	8	6	..	26	2	34	37
Malabar, South.	A	2	1	2	3	1	7	9
	B	1	..	6	18	1	25	26
	C	..	4	..	..	..	4	..
	Total ..	3	5	8	21	2	36	35
The Nilgiris ..	A	20	2	54	8	13	77	97
	B	11	2	53	24	14	93	104
	C	..	35	..	6	..	41	..
	Total ..	31	39	107	38	27	211	201
Kollegal ..	A	11	3	20	37	39	99	110
	B	41	1	90	123	43	257	298
	C	..	25	.	..	..	25	..
	Total ..	52	29	110	160	82	381	408
Coimbatore, North.	A	18	1	43	12	7	63	81
	B	25	..	156	106	7	269	294
	C	..	58	2	..	..	60	..
	Total ..	43	59	201	118	14	392	375

A = Cases taken to Court. B = Cases

† Cases with-

(a) The variations between the closing balance of 1910–11 and these

(b) Number of persons for 119 cases not

(c) Number of persons for 13 cases not

Rules during 1911–1912—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
Forests—cont.						
116	273	6	18	124	291	17
(*b*) 1,041	1,937	67	81	1,108 † 41 (*c*)	2,018 53	245
..	..	..	..	..	..	..
1,159	2,210	73	99	1,232 † 41	2,309 53	262
1,808	4,854	159	577	1,967 † 60	5,431 104	776
9,303	19,234	68	84	9,371 † 455	19,318 1,055	2,215
..	..	..	..	..	..	..
11,111	24,088	227	661	11,338 † 515	24,749 1,159	2,991
CIRCLE.						
Forests.						
104	226	9	40	113	266	30
853	1,870	..	..	853 † 171	1,870 334	193
..	..	..	..	..	..	..
957	2,096	9	40	966 † 171	2,136 334	223
27	37	2	3	29 † 5	40 5	3
..	..	..	..	..	..	..
27	37	2	3	29 † 5	40 5	3
4	18	1	5	5 † 2	23 11	2
25	66	..	..	25	66	1
..	..	..	..	..	..	..
29	84	1	5	30 † 2	89 11	3
87	295	5	26	92	321	5
60	139	..	..	60 † 38	139 105	6
..	..	..	..	..	..	..
147	434	5	26	152 † 38	460 105	11
63	195	9	59	72 † 3	254 9	35
219	565	..	..	219 † 18	565 38	61
..	..	..	..	..	..	..
282	760	9	59	291 † 21	819 47	96
51	436	4	16	55	452	26
228	562	..	..	228 † 32	562 96	34
..	..	..	..	..	..	..
279	998	4	16	283 † 32	1,014 96	60

compounded C = Cases undetected.
drawn under the orders of the District Forest or Revenue Divisional Officers.
figures are due to transfers between heads A and B.
furnished.
furnished.

Register of Breaches of Forest

District.		Cases pending from 1910-1911.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								WESTERN
								Unreserved
Coimbatore, Central.	A	45	3	77	34	14	128	173
	B	31	..	117	132	34	283	314
	C	..	44	..	..	..	44	..
	Total ..	76	47	194	166	48	455	487
Coimbatore, South.	A	17	1	44	22	7	74	91
	B	22	..	56	35	5	96	118
	C	..	28	..	..	..	28	..
	Total ..	39	29	100	57	12	198	209
Total for reserved forests.	A	139	39	307	155	101	602	741
	B	292	37	1,273	595	174	2,079	2,371
	C	..	350	2	6	..	358	..
	Total ..	431	426	1,582	756	275	3,039	3,112
South Canara ..	A	(*a*) 4	..	15	..	1	16	20
	B	(*a*) 33	..	98	...	13	111	144
	Total ..	37	..	113	..	14	127	164
Malabar, South.	B	1	..	6 †	..	..	6	7
	C	..	..	1	..	..	1	..
	Total ..	1	..	7	..	..	7	7
Kollegal ..	A	1	..	1	..	..	1	2
	B	3	2	31	..	2	35	38
	Total ..	4	2	32	..	2	36	40
Coimbatore, North.	A	..	..	10	..	..	10	10
	B	2	..	129	..	..	129	131
	Total ..	2	..	139	..	..	139	141
Coimbatore, Central.	A	3	..	..	..	..	..	3
	B	..	..	..	..	..	..	..
	Total ..	3	..	..	..	..	..	3
Coimbatore, South.	A	..	..	10	..	1	11	11
	B	..	..	52	..	..	52	52
	Total ..	..	..	62	..	1	63	63
Total for unreserved lands.	A	8	..	36	..	2	38	46
	B	39	2	316	..	15	333	372
	C	..	..	1	..	..	1	..
	Total ..	47	2	353	..	17	372	418
Total for reserved forests and unreserved lands.	A	147	39	343	155	103	640	787
	B	331	39	1,589	595	189	2,412	2,743
	C	..	350	3	6	..	359	..
	Grand Total ..	478	428	1,935	756	292	3,411	3,530

A = Cases taken to Court. B = Cases

(*a*) The variations between the closing balance of 1910-1911

* Eighteen cases are reported to have been prosecuted, 202

† Withdrawn under the orders of the District Forest Or

Rules during 1911-1912—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
lands.						
143	419	8	47	151	466	16
				† 6	19	
245	599	..	..	245	599	37
				† 32	119	
..	..	..	..	..	..	..
388	1,018	8	47	396	1,065	53
				† 38	138	
82	221	1	1	83	222	8
101	205	..	..	101	205	7
				† 10	27	
..	..	..	..	..	..	..
183	426	1	1	184	427	15
				† 10	27	
561	1,847	39	197	600	2,044	125
				† 16	44	
1,731	4,006	..	..	1,731	4,006	339
				† 301	719	
..	..	..	..	..	..	..
2,292	5,853	39	197	2,331	6,050	464
				† 317	763	
15	17	2	10	17	27	3
87	93	..	..	87	93	52
				† 5	5	
102	110	2	10	104	120	55
				† 5	5	
4	9	..	..	4	9	3
..	..	..	..	..	..	..
4	9	..	..	4	9	3
1	2	1	9	2	11	..
32	53		..	32	53	6
33	55	1	9	34	64	6
10	15	..	..	10	15	..
130	217	..	..	130	217	..
				† 1	4	
140	232	..	..	140	232	..
				† 1	4	
..	..	..	..	..	..	3
..	..	..	..	..	..	..
..	..	..	..	..	..	3
10	23	1	3	11	26	..
52	96	..	..	52	96	..
62	119	1	3	63	122	..
36	57	4	22	40	79	6
305	468	..	..	305	468	61
				† 6	9	
341	525	4	22	345	547	67
				† 6	9	
597	1,904	43	219	640	2,123	131
				† 16	44	
2,036	4,474	..	..	2,036	4,474	400
				† 307	728	
..	..	..		..	..	
2,633	6,378	43	219	2,676	6,597	531
				† 323	772	

compounded. C = Cases undetected.
and these figures are due to transfers between heads A and B.
compounded and 7 withdrawn but particulars have not been given.
Revenue Divisional Officers.

Register of Breaches of Forest

District.		Cases pending from 1910-1911.	New cases of the year.					Total cases.
			Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
Total, Presidency.	A	1,505	84	3,386	*1,587	342	5,399	6,904
	B	3,814	66	14,142	6,676	746	21,630	25,444
	C	13	1,119	438	381	28	1,966	..
Grand Total, Presidency ..		5,332	1,269	17,966	8,644	1,116	28,995	32,348

A = Cases taken to Court. B = Cases

* Withdrawn under the orders of the

Rules during 1911–1912—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
4,794	13,437	569	1,761	5,363 *118	9,798 *354	1,423
19,274	43,174	182	511	19,456 *1,507	43,685 *3,686	4,481
..	..	..	..	..	..	..
24,068	56,611	751	2,272	24,819 *1,625	53,483 *4040	5,904

compounded. C = Cases undetected.

District Forest or Revenue Divisional Officers.

APPENDIX to Annual Form No. 71 (Statement No. II prescribed by the Government of India).

District.	Details of prosecution for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
NORTHERN CIRCLE.							
Ganjam ..	* 1	50 ..	Intentional.	Acquitted ..	....	....	District Forest officer reports that one case shown as pending in the last year's return is found to be a clerical error, hence difference in opening balance for 1911-12.
	* 2	Fire just started.	Careless ..	Compounded.	....	Compounded for Rs. 4 ..	....
	* 3	*Nil.*	Do.	Do.	....	Do. Rs. 2 ..	....
	* 4	*Nil.*	Do. ..	Withdrawn.	....	....	....
	* 5	1 ..	Do. ..	Do.	....	....	....
	6	50 ..	Careless ..	Pending ..	....	....	....
	7	50 ..	Do. ..	Do. ..	....	....	....
	8	10 ..					
	9	2 ..					
	10	1,280 ..	Intentional.	Withdrawn.	....	....	....
	11	10 ..	Careless ..				
	12	25 ..	Do. ..				
Vizagapatam.	1	43,380 ..	Intentional.	Convicted ..	Section 21, clause (*b*) and (*c*), of the Forest Act.	Fined Rs. 30 and in default to suffer 20 days rigorous imprisonment.	....
Gōdāvari, Upper.	..	*Nil.*	*Nil.*	..	....	....	....
Gōdāvari, Lower.	* 1	9 feet by 5 feet.	Careless ..	Convicted ..	Section 21 of the Forest Act.	Each of the 6 accused was sentenced to pay a fine of Rs. 5, and in default to undergo simple imprisonment for 2 weeks.	As the accused failed to pay compounding fees, they were prosecuted. The accused were carrying fire into the reserve to burn cigars.
	2	..	Intentional.	Pending ..	....	....	....
Kistna ..	1	1,000 ..	Intentional.	Convicted ..	Section 21, clause (*b*) of the Forest Act.	5th and 7th accused were sentenced to pay a fine of Rs. 5 each and in default to suffer rigorous imprisonment for 10 days each. The other accused to pay a fine of Rs. 2 each and in default to suffer rigorous imprisonment for 4 days each. The bamboos and knives seized were confiscated to Government.	....
Kurnool, East.	..	*Nil.*	..	..	....	....	....
Kurnool, South.	* 1	20,480 ..	Careless ..	Withdrawn.	....	....	Relates to Kurnool West district transferred to Kurnool, South.
	2	10 ..	Careless ..	Convicted ..	Section 21-*c* of the Forest Act.	Rigorous imprisonment for 2 months; fined Rs. 6 in addition to Rs. 4, being compensation for damage done to forests.	
	3	A few sq. yards.	Do. ..	Do. ..	Do.	....	....
	4	Do.	Do. ..	Pending ..	Do.	....	....
Kurnool, West.	1	100 ..	Careless ..	Withdrawn.			
	2	..	Intentional.	Convicted ..	Section 21 of the Forest Act.	Fined Rs. 3, in default simple imprisonment for 3 days	....

* Pending cases of previous year.

Appendix to Annual Form No. 71 (Statement No. II prescribed by the Government of India)—*concl.*

District.	Details of prosecution for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
CENTRAL CIRCLE.							
Bellary...	1	0·50 ..	Careless ..	I. Accused convicted. II. Accused acquitted.	Section 21 (*b*) of Madras Forest Act V of 1882.	I. Accused fined Rs 5. II. Accused acquitted as no case was made out against him.	....
	2	2,777 ..	Do. ..	Acquitted ..	Do.	Acquitted under section 245, Cr.P.C.	
	3	100 ..	Intentional.	I. Accused ..	Pending	....	One case of last year and two of current year not reported.
Anantapur..	1	..	Cooking meals so as to endanger the reserved forest, careless.	Compounded for Rs. 15.	....	....	
Guntur ..	1	4 sq. yds...	Careless ..	Compounded ..	Section 21 (*b*) of Madras Forest Act V of 1882.	....	....
	2	15 sq. yds..	Intentional.	Do. ..		....	....
	3	..	Careless ..	Withdrawn ..	....	....	....
Cuddapah, North	1	16 acres ..	Intentional.	Acquitted ..	....	....	....
	2	25 ,, ..	Do.	Under preliminary investigation by the forest range officer.	....	....	....
Cuddapah, East.	1	1 sq. chain.	Intentional.	Convicted ..	Section 21 (*b*) of Madras Forest Act V of 1882.	Sentenced to undergo rigorous imprisonment for three months.	One case not reported.
Chittoor ..	1	4 acres ..	Do.	Do. ..	Section 21 (*c*) of Madras Forest Act V of 1882.	Fine of Rs. 50 in default to undergo imprisonment for one month.	....
SOUTHERN CIRCLE.							
North Vellore.	O.R. 437/11-12	5 cents ..	Careless ..	Withdrawn by the District Forest Officer.	....	....	
	O.R. 541/10-11	2 cents ..	Do. ..	Pending ..	....	....	
	O.R. 592/10-11	15 acres ..	Do. ..	Acquitted ..	Acquitted under section 245, Criminal Procedure Code.	....	
South Vellore.	O.R. 493/11-12	40 acres ..	Do. ..	Pending ..	....	....	
	1	About 20 acres.	Intentional.	Convicted ..	Section 21 (*c*) of the Forest Act.	One accused simple imprisonment for one month.	
	2	About 27 acres.	Do.	Pending ..	....	....	
	3	About 18 acres.	Do.				
	4	About 15 acres.	Do.				
	5	About 1 acre.	..	Withdrawn by the District Forest Officer.	....	....	
South Arcot.	*Nil.*						
North Salem	O.R. 48/11-12	½ acre ..	Careless ..	Convicted ..	Under section 21 of the Forest Act.	Fined Rs. 5.	
	,, 156	1 foot square.	Do. ..	Pending with Magistrates.	....	....	
	,, 170	100 acres ..	Do. ..				
	,, 280	794 acres ..	Intentional.				
South Salem.	1	3 ,, ..	Do.	Pending ..	....	....	
	2	50 ,, ..	Do.	Do. ..	....	....	
Trichinopoly.	*Nil.*						

Appendix to Annual Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether careless or intentional).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
				SOUTHERN CIRCLE—*cont.*			
Madura ..	1	100 ..	Intentional.	Convicted ..	Section 21 (*b*) of the Forest Act.	Rigorous imprisonment for three months.	This is a pending case of 1910–11.
	2	150 ..	Do.	Do. ..	Do.	Fined Rs. 20.	
	3	40 ..	Do.	Pending ..	....	....	
	4	50 ..	Do.	Do. ..	....	....	
	5	3 ..	Careless.	Convicted ..	Section 21 (*b*) of the Forest Act.	One of the accused fined Rs. 50. The case against the remaining two accused was withdrawn.	
Tinnevelly *cum* Ramnad.	1	6 ..	Intentional.	Acquitted ..	Acquitted under section 245, Criminal Procedure Code.	....	
				WESTERN CIRCLE.			
South Canara.	* 1	1·50 ..	Careless.	Compounded for Rs. 8.	....	....	
	* 2	5 ..	Do.	Compounded for Rs. 5.	....	....	
	* 3	·25 ..	Do.	Compounded for Rs. 4.	....	....	
	* 4	4 ..	Do.	Compounded for Rs. 10.	....	....	
	* 5	·05 ..	Do.	Compounded for Rs. 2.	....	....	
	* 6	40 ..	Do.	Compounded for Rs. 10.	....	....	
	* 7	·25 ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 5.	
	* 8	15 ..	Do.	Do. ..	Do.	,, Rs. 10.	
	* 9	..	Do.	Do. ..	Do.	Sentenced to suffer one week's rigorous imprisonment.	
	* 10	..	Do.	Do. ..	Do.	Fined Rs. 10.	
	* 11	..	Do.	Do. ..	Do.	,, Rs. 3.	
	* 12	..	Do.	Do. ..	Do.	,, Rs. 1.	
	* 13	..	Do.	Do. ..	Do.	,, Rs. 1.	
	* 14	..	Do.	Do. ..	Do.	,, Rs. 2.	
	* 15	..	Do.	Do. ..	Do.	,, Rs. 8.	
	* 16	10 ..	Intentional.	Do ..	Do.	,, Rs. 20.	
	* 17	70 ..	Do.	Do. ..	Do.	,, Rs. 15.	
	* 18	8 ..	Do.	Do. ..	Do.	,, Rs. 6.	
	19	..	Careless.	Compounded for Rs. 6.	....	....	
	20	2 ..	Do.	Compounded for Rs. 5.	....	....	
	21	60 ..	Do.	Convicted ..	Section 21 (*c*) of the Madras Forest Act.	Fined Rs. 10 and Rs. 10 compensation to the Forest Department.	
	22	400 ..	Do.	Do. ..	Do.	Fined Rs. 25.	
	23	4 ..	Do.	Do. ..	Do.	,, Rs. 5.	
	24	8 ..	Do.	Do. ..	Do.	,, Rs. 20.	
	25	12 ..	Do.	Do. ..	Do.	Sentenced to suffer two weeks' rigorous imprisonment.	
	26	12 ..	Do.	Do. ..	Do.	Fined Rs. 5.	
	27	40 ..	Do.	Do. ..	Do.	,, Rs. 15.	
	28	* 45 ..	Do.	Do. ..	Do.	,, Rs. 35.	
	29	150 ..	Do.	Do. ..	Do.	,, Rs. 15.	
	30	4 ..	Do.	Do. ..	Do.	,, Rs. 15.	
	31	..	Do.	Do. ..	Do.	,, Rs. 25.	
	32	25 ..	Do.	Do. ..	Do.	,, Rs. 35.	
	33	6 ..	Do.	Do. ..	Do.	,, Rs. 75.	
	34	·25 ..	Do.	Do. ..	Do.	,, Rs. 10.	
	35	1 ..	Do.	Do. ..	Do.	,, Rs. 6.	
	36	..	Do.	Do. ..	Do.	,, Rs. 4.	
	37	..	Do.	Do. ..	Do.	,, Rs. 2.	
	38	..	Do.	Do. ..	Do.	,, Rs. 6.	
	39	..	Do.	Do. ..	Do.	,, Rs. 15.	
	40	..	Do.	Do. ..	Do.	,, Rs. 4.	

* Pending cases of previous year.

Appendix to Annual Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether careless or intentional).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
				WESTERN CIRCLE—*cont.*			
South Canara —*cont.*	41	4 ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 5.	
	42	..	Do.	Do. ..	Do.	,, Rs. 40.	
	43	2 ..	Do.	Do. ..	Do.	,, Rs. 10.	
	*44 to 46	185 ..	Do.	Acquitted ..	..	....	
	† 47 to 58	332·01	Careless.	Withdrawn.	....	....	
	* 69 and 70	3·00 ..	Intentional.	Do	....	....	
	71 to 83	151·50	Careless.	Pending ..	....	....	
	84 to 87	844 ..	Intentional.	Do. ..	....	....	
Malabar, North.	* 1	681 ..	Intentional.	Withdrawn.	..	....	
	2	99 ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to suffer one month's rigorous imprisonment.	
Malabar, South.	* 1	1 ..	Careless.	Do. ..	Section 21 (*e*) of the Madras Forest Act.	Two accused, one sentenced to undergo one week's simple imprisonment and the other acquitted.	
	2	16 ..	Do.	Do. ..	Section 21 (*b*) of the Madras Forest Act.	Two accused sentenced to undergo two months' rigorous imprisonment each.	
The Nilgiris.	1	1 ..	Careless.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Re. 1 and a compensation of Rs. 2 awarded to the department.	
	2	1 ..	Do.	Compounded for Rs. 2.	..	....	
	3	1·50 ..	Intentional.	Withdrawn.	....	....	
	4	2 ..	Careless.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to undergo one month's rigorous imprisonment and to pay a fine of Rs. 50 in default to undergo a further imprisonment for two weeks.	
	* 1	0·30 ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 30 in default to suffer rigorous imprisonment for one month.	
Kollegal ..	2 to 4	1170 ..	Do.	Pending ..	....	....	
	5	Not known.	Careless.	Compounded for Rs. 90.	....	....	
	6	Two margosa trees burnt.	Intentional.	Compounded for Rs. 25.	....	....	
	7	Five sandal-wood plants burnt.	Do.	Compounded for Rs. 25.	....	....	
Coimbatore, North.	1	40 ..	Careless.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Nine accused; each fined Rs. 5 or simple imprisonment for five days. The two accused against whom item 3 of last year was pending were fined Rs. 25 each.	
Coimbatore, Central.	1	30 ..	Intentional.	Do.	Do.	Sentenced to suffer one month's rigorous imprisonment.	
	2	6 ..	Do.	Do.	Do.	Fined Rs. 30 in default to undergo one month's rigorous imprisonment.	
	3	0·75 ..	Do.	Pending ..	....	....	
Coimbatore, South.	1	7 ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 10.	

* Pending cases of previous year.

† Includes three pending cases of last year.

ANNUAL FORM No. 72.

Forest Department, Madras Presidency.

AREA of Forest Tracts protected from Fire during 1911–1912.

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	NORTHERN CIRCLE.	ACS.	ACS.	ACS.	ACS.	RS.	
Ganjám	Special protection ..	98,668	161,762	169	161,593	3,433	* The Collector reports that areas under general protection are entered for the first time under Conservator's circular No. 2055, dated 24th June 1912 and that they were omitted previously. Hence the increase in column 3 over previous year's figures.
	General do. ..	..	6,500	590	5,910	510	
	Total, Ganjam ..	98,668	168,262	759	167,503	3,943 +630(b)	
Vizagapatam.	Special protection ..	111,345	65,384	8,072	57,312	2,224	
	General do. ..	66,390	112,778	62,854	49,924	..	
	Total, Vizagapatam ..	177,735	178,162	70,926	107,236	2,224	
Gódávari, Upper.	Special protection ..	336,295	542,636	53,361	489,275	7,074 −960(b)	
Gódávari, Lower.	General do. ..	203,019	231,789	15,946	215,843	3,567	
Kistna ..	Special do. ..	46,473	47,092	2,435	44,657	1,094	
Kurnool, East.	Special do. ..	25,345	27,047	10,480	16,567	5,324	† Excludes cash recoveries amounting to Rs. 9, and includes Rs. 75 sanctioned as rewards to chenchus.
	General do. ..	*611,452	613,392	27,478	585,914	..	
	Total, Kurnool, East ..	636,797	640,439	37,958	602,481	5,324	
Kurnool, South.	Special protection ..	152,178	133,879	87,427	76,452	22,892	
	General do. ..	12,329	333,379	43,315	290,064	4,568	
	Total, Kurnool, South ..	164,507	497,258	130,742	366,516	27,460	‡ The Collector reports that the difference of 8,400 acres between the figures of column 6 of last year, and those in column 3 of this return, is due to correct and revised figures furnished now.
Kurnool, West.	Special protection ..	‡128,464	178,367	66,288	112,079	†13,213	
	General do. ..	..	370,913	144,790	226,123	..	
	Total ..	128,464	549,280	211,078	338,202	13,213	
	Total, special ..	898,768	(a) 11,86,167	(a) 228,232	(a) 957,935	(a)55,254	
	Total, general ..	893,190	(a) 16,68,751	(a) 294,973	(a) 1,378,778	(a) 8,645	
	Grand total ..	1,791,958	2,854,918	523,205	2,331,713	63,899 −330(b)	(b) Adjusted as per Accountant-General's final figures.
	CENTRAL CIRCLE.						
Bellary ..	General protection ..	..	..	..	..	..	
	Special do. ..	57,327	75,277	14,240	61,037	5,448	
	Total ..	..	..	..	..	..	
Anantapur ..	General protection ..	..	..	..	..	..	
	Special do. ..	100,548	370,061	36,934	333,127	4,297	
	Total ..	..	..	..	..	..	
Guntur ..	General protection ..	21,196	21,203	125	21,078	187	
	Special do. ..	13,334	13,334	148	13,186	117 + 50(b)	
	Total ..	34,530	34,537	273	34,264	354	
Cuddapah, North.	General protection ..	200,365	103,081	6,868	96,213	710	
	Special do. ..	93,143	217,969	60,592	157,377	3,830	
	Total ..	293,508	321,050	67,460	253,590	4,540	
Cuddapah, East.	General protection ..	189,315	224,317	72,863	151,454	501	
	Special do. ..	211,096	212,907	3,741	209,166	2,978	
	Total ..	400,411	437,224	76,604	360,620	3,479	

(a) Corrected in the Board's office.

Area of Forest Tracts protected from Fire during 1911-1912—*cont.*

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	CENTRAL CIRCLE—*cont.*	ACS.	ACS.	ACS.	ACS.	RS.	
Nellore ..	General protection ..	830	..	..	..	..	
	Special do. ..	149,140	149,090	691	148,399	1,906	
	Total ..	149,970	149,090	691	148,899	1,906	
Chingleput.	General protection ..	..	..	..	..	..	
	Special do. ..	25,856	25,856	10	25,846	885	
	Total ..	..		..	..	..	
Chittoor ..	General protection ..	299,053	359,090	16,608	342,482	..	
	Special do. ..	133,103	130,236	5,875	124,361	1,213 + 10*	* Added or deducted to correspond to the Accountant-General's audited figures.
	Total ..	432,156	489,326	22,483	466,843	1,223	
Circle Total.	General protection ..	710,759	707,691	96,464	611,227	1,398	
	Special do. ..	783,547	1,194,730	122,231	1,072,499	20,734	
	Total ..	1,494,306	1,902,421	218,695	1,683,726	22,132	
	SOUTHERN CIRCLE.						
Vellore, North.	Special protection ..	67,456	94,516	2,958	91,578	717	
	General do. ..	211,991	238,296	2,356	235,940	.	
	Total ..	279,447	332,812	5,294	327,518	717	
Vellore, South.	Special protection ..	122,074	118,901	1,268	117,633	2,896	The Collector reports that the difference under general protection is due to the omission of acres 84,727 protected in Tiruvannamalai Range in the last year's return.
	General do. ..	252,338	319,714	4,916	314,798	..	
	Total ..	374,412	438,615	6,184	432,431	2,896	
South Arcot.	Special protection ..	† 13,768	13,768	..	13,768	322	† Revised figure furnished by the Collector as being adopted from the sanctioned working-plan.
	General do. ..	199,070	199,089	80	199,009	..	
	Total ..	212,838	212,857	80	212,777	322	
Salem, North	Special protection ..	13,086	13,436	535	12,901	1,613	
	General do. ..	462,248	523,035	3,017	520,018		
	Total ..	475,334	536,471	3,552	532,919	1,613	
Salem, South	Special protection ..	232,773	230,674	1,744	228,930	2,551	
	General do. ..	136,733	141,093	446	140,647	..	
	Total ..	369,506	371,767	2,190	369,577	2,551	
Trichinopoly ..	General protection (*a*) ..	‡ 51,892	58,680	20	58,660	212	‡ Revised figure furnished by the Collector. (*a*) The Collector reports that special protection entered in last year's return is a mistake for general protection.
Madura ..	Special protection ..	144,478	145,453	2,209	143,244	2,806	
	General do. ..	278,947	281,050	5,839	275,211	..	
	Total ..	423,425	426,503	8,048	418,455	2,806	

Area of Forest Tracts protected from Fire during 1911-1912—*cont.*

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	SOUTHERN CIRCLE—*cont.*	ACS.	ACS.	ACS.	ACS.	RS.	
Rāmnād ..	Special protection ..	2,792	4,722	2,230	2,492	366	
	General do. ..	38,432	38,804	1,500	37,304	156	
	Total ..	41,224	43,526	3,730	39,796	522	
Tinnevelly.	Special protection ..	28,742	29,055	62	28,993	1,997	
	General do. ..	163,090	168,708	1,431	167,277	..	
	Total ..	191,832	197,763	1,493	196,270	1,997	
	Total, Special protection.	625,169	650,525	10,986	639,539	13,268	
	Total, General protection.	1,794,741	1,968,469	19,605	1,948,864	368	
	Grand total (Special and General).	2,419,910	2,618,994	30,591	2,588,403	13,636	
	WESTERN CIRCLE.						
South Canara.	Special protection ..	118,319 (a)—6,651	131,014	2,488	128,526	2,546 *+1,161	*Fire-tracing cart stands. 10 Fire-tracing Mysore-South Canara boundary. 751 Cost of previous year, disbursed during the year. 114 Cost of re-clearing lines in Jedkal, Gobhole and Kollur beats. 286 Total .. 1,161
	General do. ..	385,056 (a)—2,352	378,839	4,771	374,068	580	
	Total ..	494,392	509,853	7,259	502,594	4,287	
Malabar, North.	Special protection ..	139,628	139,561	14,645	124,916	6,704 + 20	Cost of planting on fire lines.
	General do. ...	..	..	..	..	..	
	Total ..	139,628	139,561	14,645	124,916	6,724	
Malabar, South.	Special protection ..	80,284 (a)+287	80,907	187	80,720	2,499	
	General do ..	..	..	..	..	..	
	Total ..	80,571	80,907	187	80,720	2,499	
The Nilgiris.	Special protection ..	52,672	82,651	1,903	80,748	4,407	
	General do ..	..	..	..	..	..	
	Total ..	52,672	82,651	1,903	80,748	4,407	
Kollegal ..	Special protection ..	73,818 (b)—11,220	66,757	2,443	64,314	2,779	
	General do. ..	377,164 (b)—5,056	384,499	43,769	340,730	..	
	Total ..	434,706	451,256	46,212	405,044	2,779	
Coimbatore, North.	Special protection ..	61,623	51,098	21,231	29,867	2,196 + 414	Amount spent on clearing Mysore boundary.
	General do. ..	513,888	530,632	77,663	452,969	..	
	Total ..	575,511	581,730	98,894	482,836	2,610	

(a) Due to adoption of Survey of India figures. (b) Last year's figures are reported to be incorrect.

Area of Forest Tracts protected from Fire during 1911-1912—*cont.*

District.	Forest tracts.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	WESTERN CIRCLE—*cont.*	ACS.	ACS.	ACS.	ACS.	RS.	
Coimbatore, Central.	Special protection	67,867	68,447	735	67,712	2,557	
	General do.	127,777	127,917	6,720	121,197	..	
	Total ..	195,644	196,364	7,455	188,909	2,557	
Coimbatore, South.	Special protection ..	30,494	33,666	203	33,463	2,738	
	General do. ..	192,875	194,587	2,920	191,667	..	
	Total ..	223,369	228,253	3,123	225,130	2,738	
	Total, Special, Western Circle.	607,121	654,101	43,835	610,266	26,426	
	Total, General, Western Circle	1,589,372	1,616,474	135,843	1,480,631	+1,595	
						580	
	Grand total ..	2,196,493	2,270,575	179,678	2,090,897	28,601	
Total Presidency.	Special	2,914,605	3,685,523	405,284	3,280,239	1,16,947	
	General	4,988,062	5,961,385	546,885	5,414,500	10,991	
	Grand Total, Presidency..	7,902,667	9,646,908	952,169	8,694,739	1,27,938	

ANNUAL FORM No. 73.

Forest Department, Madras Presidency.

AREA closed and open to grazing during 1911–1912.

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Area closed to goats only.	Open to all animals.	Total forest area as per Form No. 65.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjām	84	..	..	..	480	.	564
	..	..	..	..	..	75	75
Vizagapatam ..	14	..	..	..	288	..	302
	..	..	..	..	11	..	11
Gōdāvari, Upper	1	..	..	..	427	..	428
Do. Lower ..	13	..	..	..	394	..	407
	75	..	..	..	..	..	75
Kistna	41	..	..	..	163	66	278
						8 (*a*)	
	..	..	..	..	..	4	4
Kurnool, East	42	..	..	..	959	..	1,001
Do. South	271	..	..	..	504	(*a*) 3	778
Do. West	270	..	..	..	588	..	858
Total ..	736	..	..	..	3,803	77	4,616
	75	..	..	..	11	79	165
Grand total (reserved Forests and reserved Lands).	811	..	..	..	3,814	156	4,781
CENTRAL CIRCLE.							
Bellary	174	..	..	..	557	133	690
Anantapur	140*	16†	..	..	732	30	762
Guntur	139	..	..	..	689	125	814
Cuddapah, North	49	..	..	..	664	71	735
Do. East	186	8	..	..	1,065	18	1,083
Nellore	41	..	57	..	671	70	741
Chingleput	29	..	..	..	207	2	209
Chittoor	86	29	..	..	837	4	841
Total ..	844	53	57	..	5,422	453	5,875
SOUTHERN CIRCLE.							
North Vellore	69	8	..	..	396	26	499
South Vellore	44	..	..	..	701	..	745
South Arcot	22	..	..	..	323	..	345
North Salem	62	..	..	..	718	58	792
							46
South Salem	61	2	..	..	524	..	581
							6
Trichinopoly	23	..	..	..	336	..	356
							3
Madura	109	..	..	..	451	106	666
Rāmnād	22	8	4	..	39	..	73
Tinnevelly	201	23	1	..	131	..	355
							1
Total ..	613	41	5	..	3,619	190	4,412
							56

NOTE.—1. Of the figures in brackets the upper ones denote the area of reserved forests, and the lower ones the area of reserved lands.

(*a*) Closed to all animals for part of the year, and shown in this column as suggested in Board's Reference No. 1415-G 12-1, dated 22nd July 1912.

* Revised figures furnished by the Collector. † Closed from 1st April 1911 to 31st December 1911.

Area closed and open to grazing during 1911–1912—*cont.*

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Area closed to goats only.	Open to all animals.	Total forest area as per Form No. 65.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
WESTERN CIRCLE.							
South Canara				*Reserved forests.*			
	7	..	..	..	790	..	797
				Reserved lands.			
	.	..	..	..	98	..	98
Total ..	7	..	..	..	888	..	895
Malabar, North ..				*Reserved forests.*			
	30	..	232	..	..	..	262
				Reserved lands.			
	*	..	..	..	..	..	.. *
Total ..	30	..	232	..	..	..	262
Malabar, South ..				*Reserved forests.*			
	108	..	..	..	..	..	108
				Reserved lands.			
	55	..	..	..	..	..	55
Total ..	163	..	..	..	..		163
The Nilgiris				*Reserved forests.*			
	23	..	..	..	455	..	478
				Reserved lands.			
	4	..	..	..	78	..	82
Total ..	27	..	..	..	533	..	560
Kollegal				*Reserved forests.*			
	82	86	..	..	279	..	447
				Reserved lands.			
	10	..	..	..	248	..	258
Total ..	92	86	..	..	527	..	705
Coimbatore, North ..				*Reserved forests.*			
	18	85	..	..	818	..	921
				Reserved lands.			
	..	..	..	..	*	..	*
Total ..	18	85	..	..	818	..	921
Coimbatore, Central ..				*Reserved forests.*			
	61	1	..	..	245	..	307
				Reserved lands.			
	48	..	..	..	..	..	48
Total ..	109	1	..	..	245	..	355
Coimbatore, South ..				*Reserved forests.*			
	64	..	..	..	390	..	454
				Reserved lands.			
	..	..	..	..	*	..	*
Total ..	64	..	..	..	390	..	454
Total, Western Circle ..				*Reserved forests.*			
	393	172	232	..	2,977	..	3,774
				Reserved lands.			
	117	..	..	..	424	..	541
Grand total, Western Circle.	510	172	232	..	3,401	..	4,315
Grand total, Presidency ..	2,778	266	294	..	16,256	799	19,439

* Less than one square mile.

ANNUAL

Forest Department,

RETURN of Grazing in the

District.	Grazing on payment. Number									
	At enhanced rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.					RS.					RS.
Ganjam	..	..	..	..	..	10,362	35,831	S 170	..	(*i*) 10,247 (*k*) 35
Vizagapatam	(*a*) 85	(*a*) 2,533	(*a*) S 1,758	..	896	1,326	15,580	S 2,482	..	3,651
Gōdāvari, Upper	(*b*) 119	(*b*) 1,596	..	..	558	..	..	..	..	..
Do. Lower	(*a*) 6,818 (*e*) 1,076	(*a*) 8,538 (*e*) 654	..	..	6,594	(*g*) 1,510	(*g*) 10,353	S (*g*) 312	..	1,701 (*k*) 75
Kistna	(*e*) 798	(*e*) 6,774 (*h*) 2,124	(*e*) S 2,174 (*h*) G 4,230	..	6,728	7,882	31,190	S 19,356	..	10,618 (*k*) 673
Kurnool, East	(*a*) 4,418	(*a*) 67,298	(*a*) 33,366	..	28,204	868	5,653	S 20,458	Fodder grass 93 *C.L.*	(*j*) 3,199 29
Do. South	(*a*) 464	(*a*) 9,192 (X) 40	(*a*) S 10,582	..	3,858	1,542	14,432	S 21,066	..	5,259
Do. West	(*a*) 3,661	(*a*) 24,566	(*a*) S 10,725	..	9,312	2,403	22,878	S 26,205	Fodder grass 127 9 20 *C. L.*	7,648 40
Total ..	17,489	(*t*) 123,275 (X) 40	(*t*) S 58,605 G 4,230	..	51,150	25,893	136,917	S 90,049	Fodder grass 220 9 20 *C. L.*	(*t*) 42,392 (*k*) 783
Unreserved lands—										
Gōdāvari, Lower ..	(*f*) 4,991	(*f*) 6,262	..	..	4,061	23	..	..		6 1,249
Kistna	..	..	..	..	.		..	..	..	(*k*) 131
Total ..	4,991	6,262	..	..	4,061	23	.	..	..	(*k*) 6 1,380
Grand total ..	22,480	(*t*) 129,537 (X) 40	(*t*) S 58,605 G 4,230	..	55,211	25,916	133,917	S 90,049	Fodder grass 220 *C.L.*	(*t*) 44,561
CENTRAL CIRCLE.										
Bellary	..	..	..	..	..	13,273	55,036	S 148,264	..	34,326
	..	..	..	..	..	..	..	G 54,718	..	
	..	..	..	..	..	4,124	50,348	S 119,649	Fodder grass.	26,731
Anantapur	..	..	..	..	..	..	(*l*) 22,097	S (*l*) 49,535	102 C.L.	
	..	..	..	..	..	..	..	G 204	..	
	(*m*) 2,994	55,353	G 26,402	..	41,908	12,475	18,814	G 31,230	..	17,658
	..	..	S 74,425	..		..	..	S 69,593	..	
Guntūr	(*n*) 463	2,333	G 1,709	..	1,820	..	..	..	..	..
	..	..	S 6,335	..		..	..	..	..	..
	(*o*) ..	3,594	..	..	3,594	..	..	..	..	..
	(*p*) 155	2,532	S 1,722	..	1,171	1,708	28,924	S 85,465	..	21,141
Cuddapah, North ..	..	..	G 518	..		..	..	G 14,129	..	
	..	..	..	..	..	Penning fees.			..	12
	..	..	..	..	..	Details not known.			..	63
Do. East	(*m*) 47	221	S 170	..	150	2,845	38,035	G 4,099	..	15,659
	(*p*) 21	822	S 723	..	345	..	..	S 57,723	..	
	(*r*) ..	63,004	G 14,737	..	33,800	7,757	..	..	..	2,909
Nellore	..	..	S 114,915	..		..	Fodder grass.			27
	..	..	..	..	..	..	Lease of grass.			41
	..	..	..	..	..	..	Kancha rents.			10,033
Chingleput	..	..	..	..	..	2,262	31,094	S 47,790	..	11,256
	..	..	..	..	..	..	..	G (*r*) 391	..	
Chittoor	..	..	..	..	..	3,532	86,503	S 54,284	..	22,952
	..	..	..	..	..	..	..	G (*s*) 426	..	
Total ..	3,680	127,859	G 43,366 S 198,290	..	82,788	47,976	330,851	G 105,197 S 632,303	102 C.L.	1,62,808

G = Goats. S = Sheep. X = Young ones at half rates. C.L. = Cart loads at 5 annas per cart load.

The full rates are 6 annas per buffalo, 3 annas per cow and annas 1–6 per sheep.

(*a*) The enhanced rates are 8 annas per buffalo, 4 annas per cow or bullock and 2 annas per sheep.

(*b*) The enhanced rates are 8 annas per buffalo, 5 annas per bullock or cow for alien cattle in the Nugur Range.

(*e*) The enhanced rates are 12 annas per buffalo and 6 annas per cow or bullock and 3 annas per sheep.

(*g*) The full rates in Gōdāvari, Lower, are 4 annas per buffalo, 2 annas per cow or bullock and 1 anna 6 pies per sheep.

(*h*) The enhanced rates are 1 rupee per bullock and 4 annas per goat.

(*i*) This includes 2 rupees being the value of grazing permits lost.

(*j*) Value of grass fees Rs. 3,203, *minus* value of Lodge form of permits received back 131, *plus* recovery on account of grazing permits lost Rs. 27; net total Rs. 3,199.

(*k*) Sale-proceeds of grass and leaves.

(*l*) The rates are As. 1–6 per cow and 9 pies per sheep.

(*m*) ,, ,, are 12 annas per buffalo, 6 annas per cow and 3 annas per goat or sheep.

(*n*) ,, ,, are 8 annas ,, 4 annas ,, and 2 annas ,, ,,

(*o*) Plough bullocks at Re 1.

(*p*) The rates are 9 annas per buffalo, As. 4–6 per cow, As. 2-3 per sheep and 4 annas per goat.

(*r*) ,, ,, are 4 annas per cow, 2 annas per sheep and 4 annas per goat.

(*s*) ,, ,, are 12 annas per goat.

Guntur and Bellary at As. 1–6 per sheep or goat; East and North Cuddapah, and Anantapur As. 8 per goa

(*t*) Corrected in the Board's office.

FORM No. 74.

Madras Presidency.

State forests during 1911-1912.

of animals.						Grazing free. Number of animals.										
At privileged rates.*						By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
} ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10,282
..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	4,323
(c) 7,720 (d) 5,077	(c)39,078 (d)23,778	(c) G 4,540 (c) S 3,055 S 7,798	.. .. ..	7,360 2,364	10,934 7,093	..	..	..	..	..	4,074	48,288	S 53	..	10,587	10,587	28,958
} (f) 808	(f)14,029	..	..	927	1,956	..	..	..	..	..	..	..	..	..	..	..	6,853
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13,859
..	..	..	..	..	..	157	235	G 762 S1,140	..	281	..	..	..	..	..	..	20,912
..	..	..	..	..	..	2	26	S 66	..	12	..	..	..	..	..	..	8,164
..	..	..	..	..	..	..	1,491	S 3,303	..	589	..	..	..	..	..	..	15,261
13,605	76,885	S 10,853 G 4,540	..	10,651	19,983	159	1,752	S 4,509 G 762	..	882	4,074	48,288	S 53	..	10,587	10,587	1,08,612
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,285
..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	131
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,416
13,605	76,885	S 10,853 G 4,540	..	10,651	19,983	159	1,752	S4,509 G 762	..	882	4,074	48,288	S 53	..	10,587	10,587	1,12,028
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34,326
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26,731
..	..	..	..	..	..	..	..	..	..	..	12	112	S 648	..	86	86	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	65,066
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
..	(l) 122	S 200	..	21	42	..	..	..	..	..	..	..	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22,429
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
..	(l) 71	S 350	..	23	46	..	586	..	..	110	..	..	..	..	..	..	
..	(q) 153	S 350	..	21	62	..	..	..	..	..	..	..	..	..	..	..	16,372
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46,810
..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	77	..		14	14	11,270
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22,952
..	246	S 900	..	65	150	..	586	..	..	110	12	189	643	..	100	100	2,45,956

(c) The privileged rates in the Nugur Range are 4 annas per buffalo, 2 annas per cow or bullock, 1 anna 3 pies per goat, and 1 anna per sheep.

(d) The privileged rates in the Bhadrachallam, Marrigudem and Pulusumamidi and Lakkavaram ranges are 2 annas per buffalo, 1 anna per cow and 6 pies per sheep.

(f) The privileged rates are 1 anna per buffalo and 1 anna per bullock or cow.

(q) The rates are 1 anna per cow and 6 pies per sheep.

Return of Grazing in the

District.	Grazing on payment. Number									
	At enhanced rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.					RS.					RS.
Vellore North	..	..	..	..	..	2,079	67,608	G. 3,718 S. 56,714	..	21,561 (a) 3 (b) 307 (h) + 15
Do. South (e) ..	..	19,025	..	..	4,756	984	70,037	S. 34,595	..	16,744
Arcot South..	(c) 7	(c) 251	S (c) 85	..	80	5,158	68,671	S. 144,271	..	28,335 (d) 2
Salem North (e)	1,898	87,764	G 8,100 S. 19,076	..	29,324	123	30,371	S. 23,039	..	7,901 (d) 393
Do. South	..	..	..	..	..	1,156	91,736	S. 26,888	..	20,155 (f) 24
Trichinopoly	..	..	..	..	..	1,895 (g) 102	38,079 (g) 535	S. 1,12,989 S. (g) 5,097	..	18,443 (d) 21 771 (h) + 49
Madura (e)	441	64,033	G. 31,305 S. 32,445	457	36,051	..	..	..	..	..
Ramnad	..	..	..	..	.	25	4,152	S. 7,016	..	1,446 (h)+ 39
Tinnevelly	.	..	..	..	..	472	15,222	S. 26,309	..	5,497 (d) 120 (h) —39
Total ..	2,346	171,073	G. 39,405 S. 51,606	457	70,211	11,994	386,411	G. 3,718 S. 436,918	..	1,21,787
WESTERN CIRCLE.										
Reserved Forests.										
South Canara	..	..	..	..	..	5,304	38,639	..	..	9,234
Malabar, North	..	..	..	..		3,420 (c) 189	6,371 (c) 375	..	(e) 15 ..	2,660 (g) 13 (b) 8
Malabar, South	..	..	..	..	..	..	..	..	..	
The Nilgiris	..	(a) 925	(a) 3	..	463	8,735	18,386	1,236	135	6,864 (b) 178
Kollegal * .. .. †	1,891 2	58,302 551	6,024 149	..	16,274 39	..	..	..	..	..
Coimbatore, North * .. †	5,896 74	82,804 360	28,194 ..	..	27,173 32 (b) 752	..	..	..	..	..
Do. Central ..	..	..	..	..	..	96	22,175	13,265	31	5,443 (b) 288 (h) 1,364 (g) 3 (i) —1,613
Do. South ..	..	..	..	..	..	653 (d) 57	16,054 (d) 2,992	450 ..	(f) 3 ..	3,327 146 (b) 141 (j) 1
Total ..	7,863	142,942	34,370	..	44,733	18,454	104,992	14,951	184	28,057
Reserved Lands.										
The Nilgiris	..	(a) 260	..	..	130	663	638	..	..	368
Kollegal *	488	12,036	183	..	3,276	..	..	..	..	..
Total ..	488	12,296	183	..	3,406	663	638	.	..	368
Grand total, Presidency.	36,807	583,747	S 343,054 G 87,001	457	256,349	105,003	956,809	S 11,74,221 G 108,915	184	357,581

G = Goats. S = Sheep.

Southern Circle—The full rates are As. 6 per buffalo, As. 3 per cow or bullock, As. 12 per goat and As. 1-6 per sheep. The privileged rates are half the full rates.

(a) Value of fodder grass and excess remittance by permit issuing officers.
(b) Collector reports that particulars for the realisation of this amount are not known.
(c) Seven buffaloes at As. 8 each, 201 cows at As. 4 each, 50 cows at As. 5 each and 85 sheep at As. 2 each.
(d) Penning license fee.
(e) The enhanced or special rates are As. 8 per buffalo, As. 8 per goat, As. 4 per cow or bullock or other animals and As. 2 per sheep.
(f) Sale amount of grass.
(g) 102 buffaloes at As. 7-6 each, 535 cows at As. 3-9 each, and 5,097 sheep at As. 1-10½ each. The variation in rates is due to the issue of permits for 15 months instead of 12 months on account of change of the grazing year from April to July.
(h) Added and substracted to tally with Accountant-General's figure.

Western Circle—The full rates are As. 6 per buffalo, As. 3 per cow, bullock or other animals and As. 1-6 per sheep.

(a) As. 8 per cow or bullock and As. 4 per sheep.
(b) Sale-proceeds of fodder grass.
(c) Half of the full rates owing to change of grazing season.
(d) One-quarter do. do. do.
(e) Elephants As. 4 per head per diem for one month.
(f) Elephants Rs. 10 each.
(g) Arrear collection of previous year.
(h) Advance received from Permit Issuing Officers for purchase of permits.
(i) do. do. adjusted during the year.
(j) Excess collection.

* As. 8 per buffalo, As. 4 per cow, bullock or other animals and As. 2 per sheep.
† One-quarter of the above rates collected for renewal of permits.

State forests during 1911–1912—*cont.*

of animals.						Grazing free. Number of animals.										
At privileged rates.						By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				Rs.	Rs.										Rs.	Rs.	Rs.
91	865	..	..	98	196	..	..	..	..	..	..	..	..	..	..	..	22,082
1,706	10,761	S. 138	..	1,335	2,670	..	..	..	..	..	451	1,576	S. 24	..	467	467	24,637
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28,417
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37,618
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20,179
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19,284
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36,051
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,485
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,578
1,797	11,626	S. 138	..	1,433	2,866	..	..	..	..	..	451	1,576	S. 24	..	467	467	1,95,331
																	Rs.
(*k*)6,829	(*k*)5,659	..	..	1,561	3,622	..	..	..	..	..	..	..	..	..	..	..	12,856
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,673
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8
..	..	(*l*) 23,401	..	105	2,194	..	..	..	..	..	..	..	..	..	..	..	9,699
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16,313
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27,957
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,485
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,615
6,829	5,659	23,401	..	1,666	5,816	..	..	..	..	..	..	..	..	..	..	..	78,606
..	..	..	..	..	..	..	..	..	..	..	1,935	..	..	..	726	726	1,224
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,276
..		..	..	..	..	..	..	..	..	..	1,935	..	..	..	726	726	4,500
22,231	94,516	S 35,292 G 4,540	..	13,815	28,815	159	2,338	S 4,509 G 762	..	2,927	6,472	50,053	720	..	11,880	11,880	6,36,421

(*k*) Annas 2 per buffalo, cow or bullock.
(*l*) Annas 3½ per 100 per diem.

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

ABSTRACT of animals licensed to graze on payment.

Circle.	Buffaloes.	Bullocks and cows.	Sheep.	Goats.	Other animals.	Total.
Northern circle	(a) 61,951	(a) 340,379	(a) 159,507	8,770	..	(a) 570,607
Central Circle	51,656	459,056	831,493	148,563	..	1,490,768
Southern Circle	16,137	569,110	488,662	43,123	457	1,117,489
Western Circle	34,297	266,527	72,905	..	184	373,913
Total ..	164,041	16,35,072	15,52,567	200,456	641	35,52,777

(a) Corrected in the Board's office.

Annual Form No. 75.

Forest Department, Madras Presidency.

Artificial reproduction for the year 1911—1912.

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1911.	Added during the year.	Excluded during the year.	Area on 30th June 1912.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
A.—Regular Plantations.										
Northern Circle.					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjám	351	64	3	412	896	350	(a)28,199	(a) 12,743	1,058	(a) 10,835
Vizagapatam	78	..	..	78	..	..	..	5	..	1,575
Gódávari, Lower	856	87	..	943	3,105	2,260	44,909	19,474	8,829	67,155
Kistna	1,121	99	63	1,157	755	12,451	19,509	(b) 52,493	5,684	56,052
Kurnool, East	71	25	..	96	3,500	2,890	32,100	20,179	..	..
Do. South	..	4	..	4	568	..	878	..	..	..
Do. West	691	202	..	893	41,438	807	2,05,117	20,265	5,308	6,150
Total ..	3,168	481	66	3,583	50,262	18,758	3,30,712	1,25,159	20,879	1,41,767
B.—Taungya Plantations.										
Gódávari, Upper	125	..	..	125	..	..	1,826	586	..	934
C.—Cultural Operations.										
Ganjám	253	146	..	399	590	163	2,232	163	..	..
Vizagapatam	20	..	..	20	..	39	223	57	..	..
Gódávari, Upper	829		2	827	..	173	2,162	781	..	145
Do. Lower	2,014	167	..	2,181	113	108	2,148	1,032	..	..
Kistna	2,460	643	..	3,103	1,776	736	(c) 4,947	2,580	10,491	29,445
Kurnool, East	24	20	11	33	1,213	1,456	9,684	1,838	..	..
Do. South	101	..	..	101	1,641	130	4,394	502	..	..
Do. West	1,209	276	..	1,485	3,421	..	(d)12,434	..	..	..
Total ..	6,910	1,252	13	8,149	8,754	2,805	38,225	6,953	10,491	29,590
A.—Regular Plantations.										
Central Circle.										
Bellary	446	65	..	511	1,170	3,538	8,201	58,075	..	..
Anantapur	..	..	..	..	..	..	..	..	..	..
Guntúr	2,229	592	48	2,773	4,585	9,955	49,165	15,467	6,836	22,131
Cuddapah, North	..	10	..	10	532	..	532	..	..	..
Do. East	1,496		..	1,496	..	313	Not known.		51	Not known.
Nellore	(e)4,710	748	177	5,281	20,104	..	1,40,933	..	28,541	4,12,372
Chingleput	342	14	..	356	2,073	494	7,157	4,122	462	9,616
Chittoor	..	..	..	..	..	..	..	..	..	..
Total ..	9,223	1,429	225	10,427	28,464	14,300	2,05,988	77,664	35,890	4,44,119
B.—Taungya Plantations—Nil.										
C.—Cultural Operations.										
Bellary	18,184	1,402	..	19,586	9,532	3,659	78,060	3,659	..	..
Anantapur	58,242	5,904	..	64,146	5,499	187	86,605	187	..	274
Guntúr	1	..	..	1	..	..	32	..	..	..
Cuddapah, North	687	626	..	1,313	255	..	436	112	..	..
Do. East	303	..	..	303	..	346	492	509	..	..
Nellore	483	..	21	462	374	..	2,276	..	..	..
Chingleput	10,602	1,286	..	11,888	210	332	2,466	3,754	..	..
Chittoor	148	60	..	208	..	261	..	492	11	11
Total ..	88,650	9,278	21	97,907	15,870	4,785	1,20,367	8,713	11	285

(a) This has been revised by the Collector.
(b) Excludes Rs. 449 relating to Bandar taluk office compound tope which was handed over to the Revenue department in 1909-10.
(c) Excludes Rs. 113 relating to Kodur Parra disafforested in 1909-10.
(d) Includes Rs. 2,180, 892 and 1,133 spent on mound sowings in Kurnool and Pattikonda ranges, and Babul sowings in Veldutri Reserve omitted prior to 1910-11.
(e) Revised figure furnished by the Collector.

Artificial reproduction for the year 1911–1912—*cont.*

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1911.	Added during the year.	Excluded during the year.	Area on 30th June 1912.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
A.—Regular Plantations.										
SOUTHERN CIRCLE.					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
North Vellore	* 1,175	85	..	1,260	3,337	504	13,445	1,28,697	2,765	† 63,273
South Vellore	..	..	..	..	..	..	..	..	..	..
South Arcot	‡ 1,035	372	41	1,366	5,343	4,018	37,441	7,256	46,919	1,78,572
North Salem	..	..	..	..	..	..	..	..	..	..
South Salem	552	..	..	552	..	159	‡ 31,973	‡ 8,715	846	8,249
Trichinopoly	759	55	..	814	1,346	859	34,457	7,731	2,450	16,980
Madura	419	75	..	494	4,350	1,876	‡ 25,370	‡ 3,847	205	1,734
Tinnevelly *cum* Ramnad	1,747	10	..	1,757	92	788	3,302	4,604	..	..
Total	5,687	597	41	6,243	14,468	8,199	145,988	160,850	53,185	268,808
B.—Taungya Plantations.										
North Vellore	§ 818	..	..	818	..	60	..	..	66	..
South Vellore	237	..	..	237	..	..	..	..	243	1,805
South Arcot	..	..	..	..	..	..	..	..	..	..
North Salem	..	..	..	..	..	..	..	..	..	..
South Salem	..	..	..	..	..	..	..	..	..	..
Trichinopoly	595	..	595 (*a*)	..	..	..	..	..	..	..
Madura	..	..	..	..	..	..	..	..	..	..
Tinnevelly *cum* Ramnad	1	..	..	1	..	..	7	..	..	..
Total	1,651	..	595	1,056	..	60	7	..	309	1,805
C.—Cultural Operations.										
North Vellore	§ 321	514	..	835	20	..	..	..	59	573
South Vellore	..	143	..	143	..	..	..	..	..	..
South Arcot	1,997	1,608	..	3,605	828	..	1,751	487	..	..
North Salem	585	..	..	585	478	..	‡ 5,106	‡ 30,293	740	‡ 6,629
South Salem	446	210	..	656	424	133	‡ 1,663	‡ 833	64	140
Trichinopoly	1,943	..	..	1,943	..	77	388	3,594	..	..
Madura	868	7	(*b*) 868	7	73	..	73	..	..	..
Tinnevelly *cum* Ramnad	2,319	372	..	2,691	750	6	4,094	102	..	..
Total	8,479	2,854	868	10,465	2,573	216	13,075	35,309	863	7,347
A.—Regular Plantations.										
WESTERN CIRCLE.										
South Canara	122	..	..	124	..	154	2,263	6,862	..	17,292
	(*c*) + 2						(*c*) + 199	(*c*) + 50		
Malabar, North	870	..	..	870	..	583	15,164	17,346	..	..
Do. South	6,251	136	..	6,387	3,462	4,679	5,37,513	5,16,091	1,01,899	15,54,392
The Nilgiris	1,761	..	..	1,766	1,010	1,856	5,960	2,78,014	24,339	4,88,214
	(*d*) 5									
Coimbatore, Central	484	38	..	522	98	48	413	232	..	..
Do. South	93	64	..	157	1,707	996	9,947	1,427	..	..
Total	9,588	238	..	9,826	6,277	8,316	5,71,459	8,20,022	1,26,238	20,59,898

* The Collector states that he cannot reconcile the difference between the closing balance of 1910–1911 and the opening balance of 1911–12.

† The Collector reports that particulars for the difference of Rs. 74 between the figure printed in the report for 1910–1911 and that in his return are not available.

‡ Revised figure furnished by the Collector.

§ The Collector states he cannot account for the difference.

(*a*) Topes on unreserves were handed over to the Revenue department.

(*b*) Manure leaf blocks abandoned.

(*c*) Transferred from C to A owing to wrong classification in previous years.

(*d*) Omitted by the Collector from previous year's return.

Artificial reproduction for the year 1911–1912—*cont.*

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1911.	Added during the year.	Excluded during the year.	Area on 30th June 1912.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
				B.—Taungya.						
WESTERN CIRCLE—*cont.*					RS.	RS.	RS.	RS.	RS.	RS.
South Canara	364	183	..	547	..	..	46	..	..	..
Malabar, North	406	347	..	753	..	71	..	10,633	318	4,638
Total ..	770	530	..	1,300	..	71	46	10,633	318	4,638
				C.—Cultural Operations.						
South Canara	2 (*a*) — 2	..	..	..	..	(*c*) 17	199 (*a*)—199	223 (*a*) —50	..	..
Malabar, North	139	..	..	139	..	..	..	6,282	..	..
Do. South	212	..	..	212	..	186	2,044	1,063	..	..
The Nilgiris	498	7	..	505	51	182	362	29,188	..	..
Kollegal	1,870	4,662	..	6,532	167	..	209	..	..	..
Coimbatore, North	14,682 (*b*) 2	5,060	..	19,744	151	..	151 (*b*) 38	* ..	..	..
Do. Central	205	90	..	295	27	..	689	89	..	37
Do. South	473	..	..	473	..	156	1,858	1,049	..	..
Total ..	18,081	9,819	..	27,900	396	541	5,351	37,844	..	37
Grand Total, Western Circle ..	28,439	10,587	.	39,026	6,673	8,928	5,76,856	8,68,499	1,26,556	20,64,573
Total, Regular Plantations, Presidency.	27,666	2,745	332	30,079	99,471	49,573	12,54,147	11,83,695	2,36,192	29,14,592
Total, Taungya Plantations, Presidency	2,546	530	595	2,481	..	131	1,879	11,219	627	7,377
Total, Cultural Operations, Presidency.	1,22,120	23,203	902	1,44,421	27,593	8,347	1,77,018	88,819	11,365	37,259
Grand Total, Presidency ..	1,52,332	26,478	1,829	1,76,981	1,27,064	58,051	14,33,044	12,83,733	2,48,184	29,59,228

* These figures are misleading as works are frequently repeated over the same areas.
(*a*) Transferred from C to A owing to wrong classification in previous years.
(*b*) Omitted by the Collector from previous year's return.
(*c*) Cost incurred in sowing seeds broadcast in several reserved forests.

ANNUAL

Forest Department,

OUTTURN (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Ganjám.							
Reserved forests—							
Sâl	51,255	5080	..	..	56,335	..	..
Miscellaneous	12,300	..	12,140	..	24,440	..	..
Total ..	63,555	5,080	12,140	..	80,775	234,518	..
Unreserved lands—							
Sâl	4,830	2,833	..	..	7,663	..	..
Miscellaneous	1,131	104,440	5,684	..	111,255	..	..
Total ..	5,961	107,273	5,684	..	118,918	109,848	99,797
Total, Ganjám ..	69,516	112,353	17,824	..	199,693	344,366	99,797
Vizagapatam.							
Reserved forests—							
Sal	9,164	..	..	..	9 ,164	..	..
Miscellaneous	1,318	145	..	..	11,463	.	..
Total ..	10,482	145	..	..	10,627	85,043	75,254
Unreserved lands—							
Yegisi	567	..	..	..	567	..	..
Maddi	1,034	..	..	..	1034	..	..
Miscellaneous	455	50,118	300	..	50,873	..	..
Total ..	2,056	50,118	300	..	52,474	..	75,239
Total, Vizagapatam ..	12,538	50,263	300	..	63,101	85,043	150,493
Gódávari Upper.							
Reserved forests—							
Teak	536	..	..	..	536	..	..
Maddii	67	..	..	..	67	..	..
Yepi	261	..	..	..	261	..	..
Miscellaneous	555	6,509	..	..	7,064	..	..
Total ..	1,419	6,509	..	..	7,928	..	817
Unreserved lands—							
Teak	8,605	13,519	..	..	22,124	..	..
Maddi	9,233	22,983	1,144	..	33,360	..	..
Yegisi	3.182	15,552	66	..	18,800	..	..
Miscellaneous	17,270	37,656	2,334	..	57,260	..	..
Total ..	38,290	89,710	3,544	..	131,544	23,409	44,555
Total, Gódávari Upper ..	39,709	96,219	3,544	..	139,472	23,409	45,372
Gódávari Lower.							
Reserved forests—							
Maddi	136	..	..	..	136	..	..
Yegisi	40	..	..	..	40	..	..
Miscellaneous	18,480	1,300	3,334	..	23,114	..	..
Total ..	18,656	1,300	3,334	..	23,290	792,426	20
Unreserved lands—							
Teak	889	..	..	..	889	..	..
Maddi	..	440	..	..	440	..	..
Yegisi		4,031	..	..	4,031	..	..
Miscellaneous	9,885	231,583	1,592	..	243,060	..	..
Total ..	10,774	236,054	1,592	..	248,420	24,675	216,069
Total, Gódávari Lower ..	29,430	237,354	4,926	..	271,710	817,101	216,089

FORM No. 76.

Madras Presidency.

(in number) during the year 1911–1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	234,518	315,293	1,125,444	..	99,680	..	1,225,024
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	209,645	328,563	..	125,940	11,175	..	137,115
..	..	444,163	643,856	1,125,444	125,940	110,755	..	1,362,139
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..		..
..	..	160,297	170,924	786,688	695,325	5,600	..	1,487,563
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	75,239	127,713	250	66,159	2,240	..	68,649
..	..	235,536	298,637	786,888	761,484	7,840	..	1,556,212
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	817	8,745	8,050	660,475	..	..	668,525
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
560	..	68,524	200,068	4,150	415,449	2,000	..	421,599
560	..	69,341	208,813	12,200	1,075,924	2,000	..	1,090,124
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	792,446	815,736	1,150	1,057,000	..	..	1,058,150
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	240,744	489,164	5,200	9,785,147	..	..	9,790,347
..	..	1,033,190	1,304,900	6,350	10,842,147	..	..	10,848,497

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos.

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Kistna.							
Reserved forests—							
Miscellaneous	7,743	6,668	..	..	14,411	944,594	344,678
Unreserved forests—							
Miscellaneous	60	102,075	1,128	..	103,263	..	56,913
Total, Kistna ..	7,803	108,743	1,128	..	117,674	944,594	401,591
Kurnool, East.							
Reserved forests—							
Teak	648	..	..	..	648	..	..
Yegisi	3,843	..	..	..	3,843	..	..
Yepi	197	..	..	..	197	..	..
Miscellaneous	16,686	..	3,328	..	20,014	..	..
Total ..	21,374	..	3,328	..	24,702	33,291	..
Unreserved lands—							
Miscellaneous	..	16,560	..	..	16,560	..	17,840
Total, Kurnool, East ..	21,374	16,560	3,328	..	41,262	33,291	17,840
Kurnool, South.							
Reserved forests—							
Teak	3,981	..	..	..	3,981	..	.
Maddi	3,409	..	..	..	3,409		..
Yegisi	2,057	..	..	..	2,057	..	..
Yepi	240	..	..	..	240	..	..
Miscellaneous	59,971	1,998	8,047	20	70,036	..	..
Total ..	69,658	1,998	8,047	20	79,723	885,647	..
Unreserved lands—							
Miscellaneous	..	7,398	..	..	7,398	..	80,700
Total, Kurnool, South ..	69,658	9,396	8,047	20	87,121	885,647	80,700
Kurnool, West.							
Reserved forests—							
Teak	1,068	..	..	..	1,068	..	..
Yegisi	3,761	..	..	..	3,761	..	..
Maddi	1,687	..	..	..	1,687	..	..
Miscellaneous	113,651	3,530	1,300	787	119,268	..	..
Total ..	120,167	3,530	1,300	787	125,784	873,554	..
Unreserved lands—							
Miscellaneous	..	2,780	..	..	2,780	..	100,220
Total, Kurnool. West ..	120,167	6,310	1,300	787	128,564	873,554	100,220
Reserved forests and reserved lands—							*lbs*
Sal (*Shorea robusta*)	65,249	7,913	..	..	73,162	..	..
Teak (*Tectona grandis*) ..	15,727	13,519	..	..	29,246	..	..
Yegisi (*Pterocarpus Marsupium*).	13,450	19,583	66	.	33,099	..	..
Yepi (*Hardwickia binata*)	698	..	..	..	698	..	..
Maddi (*Terminalia tomentosa*).	15,566	23,423	1,144	..	40,133	..	..
Miscellaneous	259,505	572,760	39,187	807	872,259	..	..
Grand Total ..	370,195	637,198	40,397	807	1,048,597	4,007,005	1,112,102
CENTRAL CIRCLE.							
Bellary.							
Reserved forests—							
Miscellaneous	6,250	..	..	..	6,250	370,336	..
Leased forests—							
Sandalwood (*Santalum album*).	203	..	..	..	203	..	..
Miscellaneous	..	..	500	..	500	6,400	..
Unreserved lands—							
Miscellaneous	283	45,026	2,772	...	* 48,081	26,340	250,720
Total, Bellary ..	6,736	45,026	3,272	.	55,034	403,076	250,720

(in number) during the year 1911–1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	1,289,272	1,303,683	40,575	186,000	..	..	226,575
..	..	56,913	160,176	..	..	..	..	..
..	..	1,346,185	1,463,859	40,575	186,000	..	..	226,575
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	33,291	57,993	300,705	..	900	..	301,605
..	..	17,840	34,400	..	415,000	..	..	415,000
..	..	51,131	92,393	300,705	415,000	900	..	716,605
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	300	885,947	965,670	512,605	386,567	16,550	..	915,722
..	..	80,700	88,098	..	..	..	..	..
..	300	966,647	1,053,768	512,605	386,567	16,550	..	915,722
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	1,028,060	1,153,844	3,351,118	134,498	2,780	12,293	3,500,689
..	..	100,220	103,000	..	..	..	..	..
..	154,506	1,128,280	1,256,844	3,351,118	134,498	2,780	12,293	3,500,689
tract.								
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
560	154,806	5,274,473	6,323,070	6,135,885	13,927,560	140,825	12,293	20,216,563
..	..	370,336	376,586	..	..	..	..	..
..	..	..	203	..	..	..	..	..
..	..	6,400	6,900	300	..	..	..	300
..	..	277,060	325,141	..	6,120	..	..	6,120
..	..	653,796	708,830	300	6,120	..	..	6,420

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
CENTRAL CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Anantapur.							
Reserved forests—							
Miscellaneous	962	..	2,880	..	3,842	92,915	..
Unreserved lands—							
Miscellaneous	1,150	244,734	14,500	..	260,384	207,965	98,340
Total, Anantapur ..	2,112	244,734	17,380	..	264,226	300,880	98,340
Guntūr.							
Reserved forests—							
Miscellaneous . ..	31,394	..	..	..	31,394	765,028	49,600
Unreserved lands—							
Miscellaneous	6,032	410,528	22,816	..	439,376	20,250	7,904
Total, Guntūr ..	37,426	410,528	22,816	..	470,770	785,278	57,504
North Cuddapah.							
Reserved forests—							
Miscellaneous	18,811	366	1,980	..	21,157	377,815	17,700
Unreserved lands—							
Miscellaneous	..	33,930	..	..	33,930	..	224,734
Total. North Cuddapah ..	18,811	34,296	1,980	..	55,087	377,815	242,434
East Cuddapah.							
Reserved forests—							
Miscellaneous	15,790	..	2,051	..	17,841	757,564	202,955
Unreserved lands—							
Miscellaneous	..	22,245	..	..	22,245	..	35,184
Total, East Cuddapah ..	15,790	22,245	2,051	..	40,086	757,564	238,139
Nellore.							
Reserved forests—							
Miscellaneous	1,039	3,750	2,010	..	6,799	652,017	* 264,054
Unreserved lands—							
Miscellaneous	..	79,292	3,340	..	82,632	..	22,844
Total, Nellore ..	1,039	83,042	5,350	..	89,431	652,017	286,898
Chingleput.							
Reserved forests—							
Miscellaneous	727	21,277	..	..	22,004	30,056	80,375
Unreserved lands—							
Miscellaneous	..	151,275	† 6	..	151,281	..	74,940
Total, Chingleput ..	727	172,552	6	..	173,285	30,056	155,315
Chittoor.							
Reserved forests—							
Red sanders (*Pterocarpus santalinus*).	3,302	..	..	..	..	..	..
Sandalwood (*Santalum album*).	3	..	..	..	..	..	..
Miscellaneous	1,823	..	..	..	..	..	..
Total ..	5,128	522	..	..	5,650	212,232	153,869
Unreserved lands—							
Miscellaneous	..	32,795	4,860	..	37,655	..	46,692
Total, Chittoor ..	5,128	33,317	4,860	..	43,305	212,232	200,561

* Excludes 626,120 cubic feet remaining to be cut by contractors for which revenue was collected in advance.
† Excludes 169 palmyra trees for which cubic feet was not furnished by the Collector.

(in number) during the year 1911-1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO	NO.	NO.	NO.	NO.
..	..	92,915	96,757	8,601	..	..	..	8,601
..	..	306,305	566,689	..	..	..	..	..
..	..	399,220	663,446	8,601	..	..	..	8,601
..	..	814,628	846,022	..	..	..	..	..
..	..	28,154	467,530	..	..	..	..	..
..	..	842,782	1,313,552	..	..	..	..	..
..	..	395,515	416,672	3,985	252,780	9,950	..	266,715
..	..	224,734	258,664	..	..	..	..	..
..	..	620,249	675,336	3,985	252,780	9,950	..	266,715
36,599	..	997,118	1,014,959	60	605,860	2,720	..	608,640
..	..	35,184	57,429	..	..	..	..	..
36,599	..	1,032,302	1,072,388	60	605,860	2,720	..	608,640
4,969	..	921,040	927,839	11	120	..	..	131
..	..	22,844	105,476	..	775	..	..	775
4,969	..	943,884	1,033,315	11	895		..	906
..	..	110,431	132,435	..	1,357	..	..	1,357
..	..	74,940	226,221	..	..	20	..	20
..	..	185,371	358,656	..	1,357	20	..	1,377
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	366,101	371,751	200,969	658,260	..	..	859,229
..	..	46,692	84,347	..	200	12,070		12,270
..	..	412,793	456,098	(a) 200,969	658,460	12,070	..	871,499

(a) Corrected in the Board's office.

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
CENTRAL CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Reserved forests—							
Red Sanders (*Pterocarpus santalinus*).	3,302	..	..	.	..	..	..
Sandalwood (*Santalum album*).	206	..	..	..	..	..	..
Miscellaneous	76,796	..	..	..	..	..	..
Total ..	80,304	25,915	9,421	..	115,640	3,264,363	768,553
Unreserved lands—							
Miscellaneous	7,465	1,019,825	48,294	..	1,075,584	254,555	761,358
Grand total ..	87,769	1,045,740	57,715	..	1,191,224	3,518,918	1,529,911
SOUTHERN CIRCLE.							
Vellore North.							
Reserved forests—							
Miscellaneous	1,747	726	..	..	2,473	429,192	192,101
Unreserved lands—							
Miscellaneous	..	93,349	3,204	..	96,553	..	115,824
Total, Vellore North ..	1,747	94,075	3,204	..	99,026	429,192	307,925
Vellore South.							
Reserved forests—							
Sandalwood (*Santalum album*).	6,022	8	..	..	6,030	..	..
Miscellaneous	924	235	690	..	1,849	..	..
Total ..	6,946	(*a*) 243	690	..	7,879	350,253	72,415
Unreserved lands—							
Miscellaneous	.	59,343	..	..	59,343	..	131,705
Total, Vellore South ..	6,946	59,586	690	..	67,222	350,253	204,120
Arcot South.							
Reserved forests—							
Miscellaneous	5,627	129	..	..	5,756	704,072	165,953
Unreserved lands—							
Miscellaneous	1,291	117,364	6,944	..	125,599	1,420	152,705
Total, Arcot South ..	6,918	117,493	6,944	..	131,355	705,492	318,658
Salem North.							
Reserved forests—							
Sandalwood (*Santalum album*).	1,884	..	..	..	1,884	..	..
Miscellaneous	4,796	719	..	..	5,515	..	..
Total ..	6,680	719	..	..	7,399	209,579	1,107
Unreserved lands—							
Miscellaneous	2,208	134,141	1,858	..	138,207	29,776	245,599
Total, Salem North ..	8,888	134,860	1,858	..	145,606	239,355	246,706
Salem South.							
Reserved forests—							
Sandalwood (*Santalum album*).	2	..	..	..	2	..	..
Miscellaneous	1,704	105	..	..	1,809	..	..
Total ..	1,706	105	..	..	1,811	140,005	73
Unreserved lands—							
Miscellaneous	..	83,459	103	..	83,562	..	189,393
Total, Salem South ..	1,706	83,564	103	..	85,373	140,005	189,466

(*a*) Corrected in the Board's office.

(in number) during the year 1911–1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
41,568	..	4,074,484	4,190,124	213,926	1,518,377	12,670	..	1,744,973
..	..	1,015,913	2,091,497	..	7,095	12,090	..	19,185
41,568	..	5,090,397	6,281,621	213,926	1,525,472	24,760	..	1,764,158
640	..	6,21,933	624,406	..	1,937,313	..	..	1,937,313
..	..	1,15,824	212,377	..	..	..	..	..
640	..	7,37,757	836,783	..	1,937,313	..	..	1,937,313
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	4,22,668	430,547	1,421	4,325,495	14,580	..	4,341,496
..	..	1,31,705	191,048	..	997,872	..	..	997,872
..	..	554,373	621,595	1,421	5,323,367	14,580	..	5,339,368
800	..	870,825	876,581	1,561	12,882	..	..	14,443
..	..	154,125	279,724	..	462	10	..	472
800	..	1,024,950	1,156,305	1,561	13,344	10	..	14,915
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	210,686	218,085	166,432	4,261,108	..	..	4,427,540
..	..	275,375	413,582	6,340	160,417	780	..	167,537
	..	486,061	631,667	172,772	4,421,525	780	..	4,595,077
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	140,078	141,889	..	8,221,952	9,600	..	8,231,552
..	..	189,393	272,955	..	496,943	..	..	496,943
..	..	329,471	414,844	..	8,718,895	9,600	..	8,728,495

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos.

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
Trichinopoly.							
Reserved forests—							
Sandalwood (*Santalum album*).	14	3	..	..	17	..	..
Miscellaneous	361	140	2,538	..	3,039	..	..
Total ..	375	143	2,538	..	3,056	33,910	2,656,802
Unreserved lands—							
Miscellaneous	..	151,099	20,779	..	171,878	..	1,539,392
Total, Trichinopoly ..	375	151,242	23,317	..	174,934	33,910	4,196,194
Madura.							
Reserved forests—							
Teak (*Tectona grandis*) ..	272	..	..	..	272	..	..
Rosewood (*Dalbergia latifolia*).	1	..	..	..	1	..	..
Pterocarpus Marsupium ..	686	..	..	..	686	..	..
Miscellaneous	1,715	43,561	..	..	45,276	..	..
Total ..	2,674	43,561	..	..	46,235	631,750	679,149
Unreserved lands—							
Miscellaneous	11,003	92,944	2,687	..	106,634	298,273	752,137
Total, Madura ..	13,677	136,505	2,687	..	152,869	930,023	1,431,286
Ramnad.							
Reserved forests—							
Miscellaneous	..	3,339	..	..	3,339	..	63,808
Unreserved lands—							
Miscellaneous	..	24,660	40	..	24,700	..	23,734
Total, Ramnad ..	..	27,999	40	..	28,039	..	87,542
Tinnevelly.							
Reserved forests—							
Miscellaneous	3,039	234,423	259	..	237,721	25,192	283,893
Unreserved lands—							
Miscellaneous	..	11,480	11,570	..	23,050	3,027	198,170
Total, Tinnevelly ..	3,039	245,903	11,829	..	260,771	28,219	482,063
Reserved forests—							
Sandalwood (*Santalum album*).	7,922	11	..	..	7,933	..	..
Teak (*Tectona grandis*) ..	272	..	..	..	272	..	..
Rosewood (*Dalbergia latifolia*).	1	..	..	..	1	..	..
Pterocarpus Marsupium ..	686	..	..	..	686	..	..
Miscellaneous	19,913	283,377	3,487	..	306,777	..	..
Total ..	28,794	283,388	3,487	..	315,669	2,523,953	4,115,301
Unreserved lands—							
Miscellaneous	14,502	767,839	47,185	..	829,526	332,496	3,348,659
Grand Total, Reserved forests and Unreserved lands.	43,296	1,051,227	50,672	..	1,145,195	2,856,449	7,463,960
WESTERN CIRCLE.							
South Canara.							
Reserved forests—							
Teak (*Tectona grandis*) ..	451	..	..	..	451	..	..
Rosewood (*Dalbergia latifolia*).	388	..	..	..	388	..	..
Pterocarpus Marsupium ..	22	25	..	..	47	..	..
Ironwood (*Xylia dolabriformis*)	4,375	..	..	..	4,375	..	..
Miscellaneous	7,924	1,954	..	..	9,878	..	..
Total ..	13,160	1,979	..	..	15,139	439,216	272,707
Reserved lands—*Nil.*							

(in number) during the year 1911–1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	2,690,712	2,693,768	21,500	21,437	..	..	42,937
..	..	1,539,892	1,711,270	..	1,763	..	..	1,763
..	..	4,230,104	4,405,038	21,500	23,200	..	..	44,700
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,310,899	1,357,134	2,050	157,782	..	..	159,832
110	20	1,050,540	1,157,174	..	..	..	..	..
110	20	2,361,439	2,514,308	2,050	157,782	..	..	159,832
..	..	63,808	67,147	..	..	..	..	..
..	..	23,734	48,434	..	150	..	..	150
..	..	87,542	115,581	..	150	..	..	150
..	..	309,085	546,806	..	4,810	..	..	4,810
302	..	201,499	224,549	..	75	..	..	75
302	..	510,584	771,355	..	4,885	..	..	4,885
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,440	..	6,640,694	6,956,363	192,964	18,942,779	24,180	..	19,159,923
412	20	3,681,587	4,511,113	6,340	1,657,682	790	..	1,664,812
1,852	20	10,322,281	11,467,476	199,304	20,600,461	24,970	..	20,824,735
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
56	..	711,979	727,118	24,765	52,101	150	..	77,016

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
WESTERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
South Canara—cont.							
Unreserved lands—							
Teak (*Tectona grandis*)	..	800	350	1,575	2,725	..	..
Sandalwood (*Santalum album*).	..	372	..	..	372	..	..
Rosewood (*Dalbergia latifolia*).	..	1,387	25	575	1,987	..	..
Pterocarpus Marsupium ..	..	375	..	275	650	..	..
Ironwood (*Xylia dolabriformis*).	..	892	..	375	1,267	..	..
Hopea parviflora	70	6,485	2,175	34,625	43,355	..	..
Miscellaneous	91	49,295	2,625	13,925	65,936	..	..
Total ..	161	59,606	5,175	51,350	116,292	..	598,265
Total, South Canara ..	13,321	61,585	5,175	51,350	131,431	439,216	870,972
Malabar, North.							
Reserved forests—							
Teak (*Tectona grandis*) ..	1,781	55,455	..	..	57,236	..	..
Rosewood (*Dalbergia latifolia*).	839	10,784	..	..	11,623	..	..
Pterocarpus Marsupium ..	455	6,993	..	..	7,448	..	..
Lagerstræmia microcarpa ..	358	6,751	..	..	7,109	..	..
Terminalia tomentosa ..	961	20,701	..	..	21,662	..	..
Miscellaneous	423	920	75	..	1,418	..	..
Total ..	4,817	101,604	75	..	106,496	9,600	4,100
Reserved lands—*Nil.*							
Unreserved lands—							
Miscellaneous	..	..	80	..	80	..	..
Total, Malabar, North ..	4,817	101,604	155	..	106,576	9,600	4,100
Malabar, South.							
Reserved forests—							
Teak (*Tectona grandis*) ..	8,176	9,248	..	..	17,424	..	..
Rosewood (*Dalbergia latifolia*).	..	66	..	..	66	..	..
Ironwood (*Xylia dolabriformis*).	1,635	286	..	..	1,921	..	..
Terminalia tomentosa	429	2,320	..	..	2,749	..	..
Miscellaneous	..	6,121	..	..	6,121	..	..
Total ..	10,240	18,041	..	..	28,281	..	311
Reserved lands—							
Miscellaneous	220	..	..	..	220	..	..
Unreserved lands—							
Miscellaneous	16	163	..	..	179	..	195
Leased forests—							
Teak (*Tectona grandis*) ..	118,310	18	..	..	118,328	..	..
Rosewood (*Dalbergia latifolia*).	71	..	..	..	71	..	..
Ironwood (*Xylia Dolabriformis*).	1,011	..	..	..	1,011	..	..
Terminalia tomentosa	185	..	..	..	185	..	..
Miscellaneous	800	52	..	..	852	..	..
Total ..	120,377	70	..	..	120,447	7,926	..
Total, Malabar, South ..	130,853	18,274	..	..	149,127	7,926	506
The Nilgiris.							
Reserved forests—							
Teak (*Tectona grandis*) ..	..	232	..	..	232	..	..
Sandalwood (*Santalum album*) ..	413	..	..	..	413	..	..
Pterocarpus Marsupium ..	..	246	..	..	246	..	..
Miscellaneous	..	1,355	..	..	1,355	..	..
Total ..	413	1,833	..	..	2,246	381,227	16,806

(in number) during the year 1911–1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	598,265	714,557	..	25,891	..	..	25,891
56	..	1,310,244	1,441,675	24,765	77,992	150	..	102,907
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	13,700	120,196	17,250	17,107	..	..	34,357
..	..	..	80	..	..	..	..	..
..	..	13,700	120,276	17,250	17,107	..	..	34,357
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	311	28,592	10,682	22,250	..	..	32,932
..	..	..	220	..	..	..	..	..
..	..	195	374	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	7,926	128,373	26,000	3,075	..	..	29,075
..	..	8,432	157,559	36,682	25,325	..	..	62,007
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
420	..	398,453	400,699	..	321,450	..	..	3,21,450

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos.

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
WESTERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
The Nilgiris—cont.							
Reserved lands—							
Miscellaneous	..	..	..	397	397	..	..
Unreserved lands—*Nil.*							
Leased forests—							
Teak (*Tectona grandis*) ..	18,113	..	..	..	18,113	..	..
Rosewood (*Dalbergia latifolia*).	632	..	..	..	632	..	..
Pterocarpus Marsupium ..	2,114	..	..	..	2,114	..	..
Lagerstræmia microcarpa ..	438	..	..	..	438	..	..
Miscellaneous	553	..	185	..	738	..	..
Total ..	21,850	..	185	..	22,035	..	..
Total, the Nilgiris ..	22,263	1,833	185	397	24,678	381,227	16,806
Kollegal.							
Reserved forests—							
Sandalwood (*Santalum album*)..	2,226	..	..	..	2,226	..	..
Teak (*Tectona grandis*) ..	69	..	..	..	69	..	..
Hardwickia binata	11	..	..	..	11	..	..
Miscellaneous	1,776	1,026	..	..	2,802	..	..
Total ..	4,082	1,026	..	..	5,108	361,360	1,330
Reserved lands—							
Sandalwood (*Santalum album*).	198	..	..	..	198	..	..
Unreserved lands—							
Sandalwood (*Santalum album*)..	6	..	..	..	6	..	..
Total, Kollegal ..	4,286	1,026	..	..	5,312	361,360	1,330
Coimbatore, North.							
Reserved forests—							
Teak (*Tectona grandis*) ..	138	..	..	..	138	..	..
Sandalwood (*Santalum album*)..	5,328	..	..	..	5,328	..	..
Rosewood (*Dalbergia latifolia*).	721	..	..	..	721	..	..
Miscellaneous	4,739	..	36	..	4,775	..	..
Total ..	10,926	..	36	..	10,962	442,569	248
Reserved lands—*Nil.*							
Unreserved lands—							
Miscellaneous	..	14,360	242	..	14,602	..	7,680
Total, Coimbatore, North ..	10,926	14,360	278	..	25,564	442,569	7,928
Coimbatore, Central.							
Reserved forests—							
Pterocarpus Marsupium ..	300	..	..	..	300	..	..
Xylia dolabriformis	23	..	..	..	23	..	..
Miscellaneous	204	9,738	..	..	9,942	..	..
Total ..	527	9,738	..	..	10,265	189,763	281,559
Reserved lands—*Nil.*							
Unreserved lands—							
Miscellaneous	..	51,295	4,480	..	55,775	..	101,475
Total, Coimbatore Central ..	527	61,033	4,480	..	66,040	189,763	383,034
Coimbatore, South.							
Reserved forests—							
Teak (*Tectona grandis*) ..	41,065	..	..	..	41,065	..	..
Ironwood (*Xylia dolabriformis*).	3,096	..	..	..	3,096	..	..
Rosewood (*Dalbergia latifolia*).	1,131	..	..	..	1,131	..	..
Pterocarpus Marsupium ..	1,376	..	..	..	1,376	..	..
Terminalia tomentosa	18,225	..	..	..	18,225	..	..

(in number) during the year 1911–1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-Grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	33	33	430	..	..	..	1,371	1,371
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	22,035	..	918	2,575	..	3,493
420	33	398,486	423,164	..	322,368	2,575	1,371	326,314
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	362,690	3,67,798	42,300	61,096	..	..	1,03,396
..	..	..	198	..	143,820	..	..	143,820
..	..	.	6	..	..	..	..	..
..	..	362,690	368,002	42,300	204,916	..	..	247,216
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	.	..	..	..	..
..	..	..	..	..	..	..	..	..
..	.	442,817	453,779	600	2,667,724	9,711	..	2,678,035
..	..	7,680	22,282	..	..	..	..	..
..	..	450,497	476,061	600	2,667,724	9,711	..	2,678,035
..	..	..	..	.	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	471,322	481,587	1,317	798,951	620	..	800,888
..	..	101,475	157,250	..	..	..	..	..
..	..	572,797	638,837	1,317	798,951	620	..	800,888
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..

Outturn (in cubic feet solid) of Timber, Fuel and Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
WESTERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Coimbatore, South—cont.							
Reserved forests—*cont.*							
Lagerstræmia microcarpa ..	2,732	..	..	..	2,732	..	..
Miscellaneous	26,698	..	..	..	26,698	..	..
Total ..	94,323	..	..	..	94,323	343,860	..
Reserved lands—*Nil.*							
Unreserved lands—							
Miscellaneous	..	..	780	..	780	..	..
Total, Coimbatore, South ..	94,323		780	..	95,103	343,860	..
							ABS
Reserved forests—							
Teak (*Tectona grandis*) ..	51,680	64,935	..	..	116,615	..	..
Rosewood (*Dalbergia latifolia*).	3,079	10,850	..	..	13,929	..	..
Sandalwood (*Santalum album*).	7,967	..	..	..	7,967	..	..
Ironwood (*Xylia dolabriformis*).	9,129	286	..	..	9,415	..	..
Pterocarpus Marsupium ..	2,153	7,264	..	..	9,417	..	..
Terminalia tomentosa	19,615	23,021	..	..	42,636	..	..
Lagerstræmia microcarpa ..	3,090	6,751	..	..	9,841	..	..
Hardwickia binata	11	..	..	..	11	..	..
Miscellaneous	41,764	21,114	111		62,989	..	..
Total ..	138,488	134,221	111	..	272,820	2,167,595	577,061
Reserved lands—							
Sandalwood (*Santalum album*).	198	..	..	..	198	..	..
Miscellaneous	220	..	..	397	617	..	..
Total ..	418	..	..	397	815	..	..
Unreserved lands—							
Teak (*Tectona grandis*)	..	800	350	1,575	2,725	..	..
Sandalwood (*Santalum album*).	6	372	..	..	378	..	..
Rosewood (*Dalbergia latifolia*).	..	1,387	25	575	1,987	..	..
Pterocarpus Marsupium ..	..	375	..	275	650	..	..
Ironwood (*Xylia dolabriformis*).	..	892	..	375	1,267	..	..
Hopea parviflora	70	6,485	2,175	34,625	43,355	..	..
Miscellaneous	107	115,113	8,207	15,925	137,352	..	..
Total ..	183	125,424	10,757	51,350	187,714	..	707,615
Leased forests—							
Teak (*Tectona grandis*)	136,423	18	..	..	136,441	..	..
Rosewood (*Dalbergia latifolia*).	703	..	..	..	703	..	..
Ironwood (*Xylia dolabriformis*).	1,011	..	..	..	1,011	..	..
Terminalia tomentosa	185	..	..	..	185	..	..
Pterocarpus Marsupium	2,114	..	..	..	2,114	..	..
Lagerstræmia microcarpa ..	438	..	..	..	438	..	..
Miscellaneous	1,353	52	185	..	1,590	..	..
Total ..	142,227	70	185	..	142,482	7,926	..
Reserved forests, reserved lands and unreserved lands and leased forests—							
Teak (*Tectona grandis*) ..	188,103	65,753	350	1,575	255,781	..	..
Rosewood (*Dalbergia latifolia*).	3,782	12,237	25	575	16,619	..	..
Sandalwood (*Santalum album*).	8,171	372	..	...	8,543	..	..
Ironwood (*Xylia dolabriformis*).	10,140	1,178	..	375	11,693	..	..
Pterocarpus Marsupium ..	4,267	7,639	..	275	12,181	..	..
Terminalia tomentosa ..	19,800	23,021	..	..	42 821	..	..
Hopea parviflora	70	6,485	2,175	34,625	43,355	..	..
Lagerstræmia microcarpa ..	3,528	6,751	..	..	10,279	..	..
Hardwickia binata	11	..	..	..	11	..	..
Miscellaneous	43,444	136,279	8,503	14,322	202,548	..	..
Grand total ..	281,316	259,715	11,053	51,747	603,831	2,175,521	1,284,676

in number) during the year 1911-1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
160	..	344,020	438,343	..	203,156	..	..	203,156
..	..	..	780	..	..	..	..	..
160	..	344,020	439,123	..	203 156	..	..	203,156
TRACT.								
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
636	..	2,745,292	3,018,112	96,914	4,143,835	10,481	..	4,251,230
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	33	33	848	..	143,820	..	1,371	145,191
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	707,615	895,329	..	25,891	..	..	25,891
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	7,926	150,408	26,000	3,993	2,575	..	32,568
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
636	33	3,460,866	4,064,697	122,914	4,317,539	13,056	1,371	4,454,880

Outturn (in cubic feet solid) of Timber, Fuel and Bamboo

District.	Timber.						
	Government.	Purchasers.	Free grantees.	Right holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Total, Presidency, Reserved Forests, reserved lands and unreserved lands—							
Teak	204,102	79,272	350	1,575	285,299	..	..
Sal	65,249	7,913	..	..	73,162	..	..
Red Sanders (*Pterocarpus marsupium*).	21,705	27,222	66	275	49,268	..	..
Yepi (*Hardwickia binata*) ..	709	..	..	..	709	..	..
Ironwood (*Xylia dolabriformis*).	10,140	1,178	..	375	11,693	..	..
Maddi (*Terminalia tomentosa.*)	35,366	46,444	1,144	..	82,954	..	..
Rosewood (*Dalbergia latifolia*).	3,783	12,237	25	575	16,620	..	..
Hopea parviflora	70	6,485	2,175	34,625	43,355	..	..
Sandal (*Santalum album*) ..	16,299	383	..	..	16,682	..	..
Lagerstroemia microcarpa ..	3,528	6,751	..	..	10,279	..	..
Miscellaneous	421,625	2,805,995	156,077	15,129	3,398,826	..	..
Grand Total, Presidency, Reserved Forests, Reserved lands and unreserved lands.	782,576	2,993,880	159,837	52,554	3,988,847	12,557,893	11,390,649

(in number) during the year 1911-1912, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
TRACT—*cont.*								
C. FT	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
44,616	154,859	24,148,017	28,136,864	6,672,029	40,571,032	208,611	13,664	47,260,336

ANNUAL FORM No. 77.

Forest Department, Madras Presidency.

OUTTURN of Minor Forest Produce during the year 1911-1912.

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grantees.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
		MDS.	RS.	RS.	RS.	RS.	RS.
Northern Circle.	Grazing and fodder grass ..	..	..	1,10,364	8	979	1,11,351
	Grass (thatch, korai, tharbi, etc.).	13,933	111	1,076	100	..	1,287
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	26	15	46,941	..	500	47,456
	Horns, honey, wax, resin, gum, skins, etc.	16	139	,115	..	..	1,254
	Tangedu, etc., barks and fibres.	..	..	29,875	..	..	29,875
	Stone, gravel, earth, etc. ..	9,524	23	4,218	..	..	4,241
	Leaves for platters	..	..	317	..	..	317
	Date and palmyra leaves, stalks, etc.	..	..	42	..	..	42
	Miscellaneous (including tree-owner's fees).	248,307	14,634	71,645	2	..	86,281
	Total ..	271,806	14,922	2,65,593	110	1,479	2,82,104
Central Circle.	Grazing and fodder grass ..	3,339	488	2,49,836	100	110	2,50,534
	Grass (thatch) and korai, etc. ..	1,287	614	309	..	..	923
	Tamarind, soapnuts and gallnuts.	5,541	3,575	4,837	..	..	8,412
	Horns, honey, wax, gums, etc.	16	12	4,135	..	..	4,147
	Tangedu, vembadam, etc. ..	167	769	2,23,997	..	..	2,24,766
	Mica stone, gravel, etc. ..	..	..	42,256	..	..	42,256
	Manure leaves, thorns, etc. ..	..	..	10,972	6	..	10,978
	Date, palmyra leaves, etc. ..	2,045	23	2,102	166	..	2,291
	Miscellaneous including tree-tapping and tree-owners' fees.	23,193	6,453	1,29,879	100	..	1,36,432
	Total ..	35,588	11,934	6,68,323	372	110	6,80,739
Southern Circle.	Grazing and fodder grass ..	3,795	358	193,431	467	1,433	1,95,689
	Grass (thatch and korai, etc.) ..	..	..	4,892	4	273	5,169
	Tamarind, soapnuts, gallnuts, etc.	208	94	30,213	..	..	30,307
	Horns, honey, wax, gum, etc. ..	106	611	825	..	..	1,436
	Avaram, vembadam, etc., barks.	..	..	23,465	..	..	23,465
	Stones, gravel and earth ..	..	..	28,166	..	..	28,166
	Manure leaves, thorns, etc. ..	..	..	24,056	..	..	24,056
	Date, palmyra leaves, etc. ..	..	..	2,950	60	..	3,010
	Miscellaneous including tree tapping fees.	20	3	117,426	..	725	1,18,154
	Total ..	4,129	1,066	4,25,424	531	2,431	4,29,452
Western Circle.	*Reserved forests.*						
	Grass and grazing	6,160	619	74,456	..	..	75,075
	Grass (thatch, korai, etc.) ..	423	37	325	..	..	362
	Dammer, turmeric, pepper, cardamoms, etc.	2	5	5,784	..	..	5,789
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	7,581	5,711	579	..	..	6,290
	Horns, honey, wax, gum, resin, skins, etc.	452	4,194	1,000	..	..	5,194
	Avaram, vembadam, etc., barks and fibres.	239	64	2,759	..	..	2,823
	Stones, gravel, earth, etc. ..	..	..	1,554	13	..	1,567
	Manure leaves, thorns, etc, ..	..	..	789	..	..	789
	Date and palmyra leaves ..	..	..	1,173	..	..	1,173
	Miscellaneous	58	346	5,008	..	..	5,354
	Total ..	14,915	10,976	93,427	13	..	1,04,416

Outturn of Minor Forest Produce during the year 1911-1912—*cont.*

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grantees.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
	Reserved lands.	MDS.	RS.	RS.	RS.	RS.	RS.
	Grass and grazing	..	..	3,774	..	726	4,500
	Grass (thatch, korai, etc.) ..	..	..	11	1	13	25
	Dammer, turmeric, pepper, cardamoms, etc.	2	15	540	..	..	555
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	327	204	..	..	..	204
	Horns, honey, wax, gum, resin, skins, etc.	70	401	..	..	..	401
	Stones, gravel, earth, etc. ..	..	..	26	..	..	26
Western Circle.—*cont.*	Total ..	399	620	4,351	1	739	5,711
	Unreserved lands.						
	Catechu	1,282	12,900	..	..	..	12,900
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	..	..	5,446	..	..	5,446
	Avaram, vembadam, etc., barks and fibres.	..	..	2,506	..	..	2,506
	Stones, gravel, earth, etc. ..	..	..	4,923	79	..	5,002
	Date and palmyra leaves ..	..	..	519	5	..	524
	Miscellaneous	..	..	17,939	..	..	17,939
	Total ..	1,282	12,900	31,333	84	..	44,317
	Grand total ..	16,596	24,496	1,29,111	98	739	1,54,444
	Abstract.						
	Grazing and fodder grass ..	13,294	1,465	6,31,861	575	3,248	6,37,149
	Grass (thatch, Korai, etc.) ..	15,643	762	6,613	105	286	7,766
	Tamarind, soapnuts, gallnuts, nux-vomica, shekoy, etc.	13,683	9 599	88,016	..	500	98,115
	Horns, honey, wax, resin etc.	660	5,357	7,075	..	..	12,432
	Pangedu. Vembadam, etc. ..	406	833	2,82,602	..	..	2,83,435
	Mica stones, gravel etc. ..	9,524	23	81,143	92	..	81,258
	Leaves for platters, etc. ..	..	..	317	..	..	317
	Dammer, turmeric, pepper ..	4	20	6,324	..	..	6,344
	Manure leaves, thorns, etc. ..	..	..	35,817	6	..	35,823
	Date and palmyra leaves, stalks etc.	2,045	23	6,786	231	..	7,040
	Catechu	1,282	12,900	..	..	..	12,900
	Miscellaneous	2,71,578	21,436	3,41,897	102	725	3,64,160
	Grand total for the Presidency.	3,28,119	52,418	14,88,451	1,111	4,759	15,46,739

ANNUAL FORM No. 78.

Forest Department, Madras Presidency.

ACCOUNT of timber cut or collected by Government Agency and brought to depot, sold locally or otherwise disposed of during 1911–1912.

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
TIMBER (CUBIC FEET).					
Northern Circle.					
Ganjam	51,219	69,516	120,735	82,431	38,304
Vizagapatam	587	12,538	13,125	3,530	9,595
Godavari, Upper	17,247	39,709	56,956	28,145	28,811
Do. Lower	4,034	29,430	33,464	12,597	20,867
Kistna	525	7,803	8,328	8,014	314
Kurnool, East	20,806	21,374	42,180	34,208	7,972
Do. South	40,345	69,658	110,003	77,088	32,915
Do. West	36,951	120,167	157,118	130,801	26,317
Total	171,714	370,195	541,909	376,814	165,095
Central Circle.					
Bellary	3,327	6,736	10,063	9,237	826
Anantapur	4,957	2,112	7,069	6,761	308
Guntur	5,087	37,426	42,513	38,714	3,799
Cuddapah, North	3,859	18,811	22,670	16,933	5,737
Do. East	7,155	15,790	22,945	18,321	4,624
Nellore	153	1,039	1,192	(*b*) 1,093	99
Chingleput	640	727	1,367	1,291	76
Chittoor	(*a*) 234	5,128	5,362	5,317	45
Madras depots	180	..	180	180	..
Total	25,592	87,769	113,361	97,847	15,514
Southern Circle.					
Vellore, North	1,044	1,747	2,791	1,480	1,311
Do. South	7,209	6,946	14,155	7,240	6,915
Arcot, South	1,047	6,918	7,965	7,006	959
Salem, North	4,346	888 8	13,234	10,958	2,276
Do. South	955	1706	2,661	2,147	514
Trichinopoly	26	375	411	188	223
Madura	679	13,677	14,356	14,344	12
Ramnad	..	..	..	..	..
Tinnevelly	733	3,039	3,772	1,463	2,309
Total	16,049	43,296	59,345	44,826	14,519
Western Circle.					
South Canara	21,433	13,256 (*c*) + 65	34,754	21,340 (*d*) 308 (*e*) 2,459	10,647
Malabar, North	21,641	4,817	26,458	6,018 (*d*) 1,612 (*d*) 844	17,984
Do. South	83,564	130,853	214,417	91,173 (*d*) 3,321 (*e*) 1,296 (*e*) 970	117,657
The Nilgiris	20,087	22,263	42,350	23,092 (*e*) 29	19,229
Kollegal	3,653	4,286 (*f*) + 844	8,783	7,566 (*e*) 38	1,179
Coimbatore, North	3,399	10,926	14,325	8,136	6,189
Do. Central	2,321	527	2,848	2,609	239
Do. South	207,831	94,323 (*g*) + 970	303,124	53,866 (*d*) 2,952 (*e*) 166	246,140
Total	363,929	283,130	647,059	227,795	419,264
Grand Total	577,284	784,390	1,361,674	747,282	614,392

(*a*) Revised figure furnished by the Collector.
(*b*) Includes 230 c. ft. used departmentally.
(*c*) Transferred from "Fuel" to "Timber."
(*d*) Used departmentally.
(*e*) Written off the accounts.
(*f*) Transferred from South Malabar to South Coimbatore.
(*g*) Transferred from North Malabar to Kollegal.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1911-1912—*cont.*

District.	Balance at commencement of the year in forest and sale depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
FUEL (CUBIC FEET).					
Northern Circle.					
Ganjam	35,320	344,366	379,686	370,162	9,524
Vizagapatam	21,819	85,043	106,862	106,133	729
Godavari, Upper	* 9,918	23,409	33,327	11,745	21,582
Do. Lower	134,568	817,101	951,669	749,277	202,392
Kistna	89,924	944,594	1,034,518	971,214	63,304
Kurnool, East	* 41,559	33,291	74,850	62,988	11,862
Do. South	139,115	885,647	1,024,762	654,375	370,387
Do. West	270,936	873,554	1,144,490	766,161	378,329
Total	743,159	4,007,005	4,750,164	3,692,055	1,058,109
Central Circle.					
Bellary	* 101,712	403,076	504,788	495,538	9,250
Anantapur	233,366	300,880	534,246	333,850	200,396
Guntur	262,216	785,278	1,047,494	963,859	83,635
	(*b*) 300	26,100	26,400	26,400	..
Cuddapah, North	293,808	377,815	671,623	638,701	32,922
Do. East	306,953	757,564	1,064,517	987,432	77,085
Nellore	93,527	652,017	752,248	(*e*) 712,079	37,021
	6,694				(*d*) 3,148
Chingleput	20,858	30,056	50,914	50,496	418
Chittoor	(*) 9,960	212,232	222,192	222,192	..
Madras depots	19,228	414,119	433,347	433,347	..
Total	1,348,632	3,518,918 (*b*) 26,100 (*e*) 414,119	5,307,769	4,863,894	443,875
Southern Circle.					
Vellore, North	12,744	429,192	441,936	418,183	23,753
Do. South	164,928	350,253	515,181	450,422	64,759
Arcot, South	86,962	705,492	792,454	771,871	20,583
Salem, North	20,811	239,355	260,166	259,022	1,144
Do. South	44,358	140,005	184,363	182,698	1,665
Trichinopoly	13,204	33,910	47,114	34,971	12,143
Madura	948	930,023	930,971	930,971	..
Ramnad	..	..	..	..	..
Tinnevelly	2,538	28,219	30,757	30,697	60
Total	3,46,493	2,856,449	3,202,942	3,078,835	124,107
Western Circle.					
South Canara	331,762	439,216	770,978	472,485 (*g*) 864 (*h*) 21,001 (*f*) 65	276,563
Malabar, North	5,480	9,600	15,080	3,600	11, 480
Do. South	4,715	7,926	12,641	8,653 (*g*) 60 (*h*) 3,800	128
The Nilgiris	152,353	381,227	533,580	296,121 (*h*) 6,040	231,419
Kollegal	152,360	361,360	513,720	273,945	239,775
Coimbatore, North	117,350	442,569	559,919	483,559	76,360
Do. Central	64,740	189,763	254,503	238,005 (*h*) 8,275	8,223
Do. South	24,168	343,860	368,028	314,590 (*g*) 80 (*h*) 327	53,031
Total	852,928	2,175,521	3,028,449	2,131,470	896,979
Grand Total	32,91,212	12,998,112	16,289,324	13,766,254	2,523,070

* Revised figure.
(*b*) Produce received from Kurnool East.
(*c*) Includes 3,258 c. ft. used departmentally.
,, 21,420 c. ft. deficit written-off.
,, 3,560 c. ft. value recovered.
,, 266,050 c. ft. supplied to Madras depots and boat men
(*d*) Deficit not written-off.
(*e*) Produce received in Madras depot.
(*f*) Transferred from "Fuel" to "Timber"
(*g*) Used departmentally.
(*h*) Written off the accounts.

Account of timber cut or collected by Government Agency and brought to depot, sold locally or otherwise disposed of during 1911–1912—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance on hand at close of the year in forest and sale depots.
1	2	3	4	5	6
BAMBOOS (NUMBER).					
Northern Circle.					
Ganjam	16,792	1,125,444	1,142,236	1,130,386	11,850
Vizagapatam	866	786,888	787,754	786,444	1,310
Godavari, Upper	2,425	12,200	14,625	12,200	2,425
Do. Lower	22,118	6,350	28,468	28,468	..
Kistna	2,450	40,575	43,025	38,475	4,550
Kurnool, East	175	300,705	300,880	300,880	..
Do. South	18,295	512,605	530,900	527,640	3,260
Do. West	70,130	3,351,118	3,421,248	3,420,747	501
Total ..	133,251	6,135,885	6,269,136	6,245,240	23,896
Central Circle.					
Bellary	1,528	300	1,828	1,828	..
Anantapur	16,627	8,601	25,228	(c) 11,642	13,586
Guntur	150	..	150	150	..
	(a) & (b) 8,633	..	8,633	8,633	..
Cuddapah, North	6,392	3,985	10,377	10,222	155
Do. East	10	60	70	70	..
Nellore	..	11	11	(d) 11	..
Chingleput	..	..	..	..	..
Chittoor	(a) ..	200,969	200,969	200,907	62
Madras depots	18,640	(g) 60,970	79,610	79,610	..
Total ..	51,980	213,926 / (g) 60,970	326,376	313,073	13,803
Southern Circle.					
Vellore, North	..	..	..	..	..
Do. South	..	1,421	1,421	1,421	..
Arcot, South	1,903	1,561	3,464	2,814	650
Salem, North	30,556	172,772	203,328	179,250	24,078
Do. South	..	..	..	..	..
Trichinopoly	5,976	21,500	27,476	24,459	3,017
Madura	..	2,050	2,050	2,050	..
Ramnad	..	..	..	..	..
Tinnevelly	..	..	..	..	..
Total ..	38,435	199,304	237,739	209,994	27,745
Western Circle.					
South Canara	6,459	24,765	31,224	21,338 / (e) 1,207	8,679
Malabar, North	2,422	17,250	19,672	18,386 / (e) 229	1,057
Do. South	53,229	36,682	89,911	57,904 / (e) 2,687 / (f) 1,953	27,367
Kollegal	34,408	42,300	76,708	71,124	5,584
Coimbatore, North	2,400	600	3,000	3,000	..
Do. Central	..	1,317	1,317	1,317	..
Do. South	40	..	40	40	..
Total ..	98,958	122,914	221,872	179,185	42,687
Grand Total ..	322,624	6,732,999	7,055,623	6,947,492	108,131

(a) Revised figure furnished by the Collector.
(b) Produce received from Kurnool East.
(c) Includes 2,850 received from Kurnool East.
(d) Includes 230 c. ft. used departmentally.
(e) Used departmentally.
(f) Written off the accounts.

Account of timber or other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1911–1912—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
MINOR PRODUCE (MAUNDS OF 28 LBS.).					
Northern Circle.					
Ganjām	59	41	100	100	..
Vizagapatam	8,649	153	8,802	8,802	..
Gōdāvari, Upper	* 26,159	9,567	35,726	8,147	27,579
Do. Lower	..	13,780	13,780	1,780	12,000
Kistna	54,985	231,512	286,497	280,330	6,167
Kurnool, East	1,352	12,234	13,586	9,825	3,761
Do. South	492	1,928	2,420	2,263	157
Do. West	1,361	2,591	3,952	2,840	1,112
Total ..	93,057	271,806	364,863	314,0	50,776
Central Circle.					
Bellary	* 16,889	1,277	18,166	18,153	13
Anantapur	..	356	356	150	206
Guntūr	45,612	18,462	64,074	39,634	24,440
Cuddapah, North	2,964	1,509	4,473	3,838	635
Do. East	1,263	2,114	3,377	2,147	1,230
Nellore	670	11,052	11,722	8,536	3,186
Chingleput	* 3,476	39	3,515	21	3,494
Chittoor	* 721	779	1,500	1,084	416
Madras depots	28	..	28	28	..
Total ..	71,623	35,588	107,211	73,591	33,620
Southern Circle.					
Vellore, North	1,130	692	1,822	1,242	580
Do. South	..	320	320	..	320
Arcot, South	..	20	20	4	16
Salem, North	641	2,273	2,914	2,465	449
Do. South	289	382	671	468	203
Trichinopoly	20	406	426	248	178
Madura	..	..	..	..	..
Ramnad	14	..	14	14	..
Tinnevelly	62	36	98	46	52
Total ..	2,156	4,129	6,285	4,487	1,798
Western Circle.					
South Canara	103	3,122	3,225	2,514	711
Malabar, North	(*d*)	1	1	1	(*d*)
Do. South	(*d*)	5	5	2	3
The Nilgiris	1,397	398	1,795	1,011 (*c*) 7	777
Kollegal	728	1,068	1,796	864 (*c*) 15	917
Coimbatore, North	3,430	5,706	9,136	9,057	79
Do. Central	10,854	4,600	15,454	14,414 (*c*) 1,000	40
Do. South	73	1,696	1,769	1,241 (*b*) 400 (*c*) 74	54
Total ..	16,585	16,596	33,181	30,600	2,581
Grand total ..	183,421	328,119	511,540	422,765	88,775

* Revised figures.
(*b*) Used departmentally.
(*c*) Writte off the accounts.
(*d*) Less than one quarter.

Annual Form No. 79.

Forest Department, Madras Presidency.

Statement showing the value of Timber and other Produce at Sale depots for 1911–1912.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Northern Circle.			Rs.			Rs.	Rs.	Rs
Ganjam ..	Timber	..	51,219	35,385	..	38,304	28,255	..	7,130
	Fuel	..	35,320	26,388	..	9,524	184	..	26,154
	Bamboos ..	16,792	..	414	11,850	..	200	..	214
	Minor produce ..	Mds. 59	..	..	..	..	..	..	..
Vizagapatam.	Timber	..	587	501	..	9,595	207	..	294
	Fuel	..	21,819	818	..	729	54	..	764
	Bamboos ..	866	..	9	1,310	..	13	4	..
	Minor produce ..	Mds. 8,649	..	292	..	..	..	..	292
Godavari, Upper.	Timber	..	17,247	4,485	..	28,811	8,699	4,214	..
	Fuel	..	9,918	551	..	21,582	221	..	330
	Bamboos ..	2,425	..	35	2,425	..	35	..	..
	Minor produce ..	Mds. 26,159	..	403	27,579	..	251	..	152
Godavari, Lower.	Timber	..	4,034	252	.	20,867	1,304	1,052	..
	Fuel	..	134,568	2,103	..	202,392	3,162	1,059	..
	Bamboos ..	22,118	..	110	..	..	..	..	110
	Minor produce ..	..	..	..	Mds. 12,000	..	94	94	..
Kistna ..	Timber	..	525	131	..	314	103	..	28
	Fuel	..	89,924	5,350	..	63,304	1,238	..	4,112
	Bamboos ..	2,450	..	55	4,550	..	37	..	18
	Minor produce ..	Mds. 54,985	..	459	Mds. 6,167	..	64	..	395
Kurnool, East.	Timber	..	20,806	15,304	..	7,972	3,986	..	11,318
	Fuel	..	41,559	1,011	..	11,862	245	..	766
	Bamboos ..	175	..	5	..	..	..	..	5
	Minor produce ..	Mds. 1,352	..	450	Mds. 3,761	..	1,254	804	..
Kurnool, South.	Timber	..	40,345	41,621	..	32,915	27,590	..	14,031
	Fuel	..	139,115	8,115	..	370,387	15,432	7,317	..
	Bamboos ..	18,295	..	764	3,260	..	99	..	665
	Minor produce ..	Mds. 492	..	160	Mds. 157	..	105	..	55
Kurnool, West.	Timber	..	36,951	18,475	..	26,317	13,158	..	5,317
	Fuel	..	270,936	16,934	..	378,329	23,645	6,711	..
	Bamboos ..	70,130	..	877	501	..	5	..	872
	Minor produce ..	Mds. 1,361	..	1,871	Mds. 1,112	..	1,529	..	342
	Central Circle.								
Bellary ..	Timber	..	3,327	209	..	826	2,720	2,311	..
	Fuel	..	101,712	2,618	..	9,250	185	..	2,433
	Bamboos ..	1,528	..	101	..	..	..	..	101
	Minor produce ..	(a) Mds. 16,889	..	5,052	Mds. 13	..	11	..	5,041
Anantapur ..	Timber	..	4,957	1,542	..	308	94	..	1,448
	Fuel	..	233,366	12,965	..	200,896	10,843	..	2,122
	Bamboos ..	16,627	..	1,039	206 Mds.	..	946	..	93
	Minor produce ..	..	..	..	13,586	..	824	824	..
Guntur ..	Timber	..	3,160	762	..	..	..	..	762
	Fuel	..	125,875	10,690	..	75	6	..	10,684
	Bamboos ..	150	..	9	..	..	..	..	9
	Minor produce ..	Mds 3,448	..	615	Mds 1,520	..	380	..	235
	Kurnool Fuel ..	..	300	28	..	..	..	..	28
	Bamboos ..	(a)8,633	..	472	..	..	..	..	472

(a) Revised figures furnished by the Collector.

Statement showing the value of Timber and other Produce at sale depots for 1911–1912—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Central Circle—cont.			Rs.			Rs.	Rs.	Rs.
North Cuddapah.	Timber	..	2,992	4,886	..	3,769	4,992	106	..
	Fuel	..	12,502	788	..	9,220	633	..	155
	Bamboos ..	6,317	..	94	155	..	12	..	82
		MDS.			MDS.				
	Minor produce ..	800	..	103	320	..	49	..	54
East Cuddapah.	Timber	..	7,155	2,725	..	3,990	2,015	..	710
	Fuel	..	180,444	4,337	..	2,235	115	..	4,222
	Bamboos ..	10	..	(*a*) ..	..	..	..	..	..
		MDS.			MDS.				
	Minor produce ..	1,263	..	105	664	..	130	25	..
Nellore ..	Timber	..	153	101	..	99	5	..	96
	Fuel	..	93,537	8,475	..	37,021	3,122	..	5,353
		MDS.			MDS.				
	Minor produce ..	670	..	308	3,186	..	1,855	1,547	..
Chingleput.	Timber	..	640	120	..	76	14	..	106
	Fuel	..	20,858	3,217	..	418	51	..	3,166
		MDS.			MDS.				
	Minor produce ..	(*b*) 3,473	..	..	(*b*) 3,494	..	..	..	..
	Madras Depots—								
	Fuel	..	19,228	4,908	..	..	..	..	4,908
	Bamboos ..	18,640	..	349	..	..	..	..	349
	Minor produce ..	(*b*) 28	..	..	..	..	..	..	..
		MDS.							
	Timber	..	180	34	..	..	..	..	34
Chittoor ..	Timber	..	4,234	1,588	..	45	12	..	1,576
	Fuel	..	16,497	2,062	..	23,560	3,226	1,164	..
	Bamboos ..	17,080	..	342	..	..	..	..	342
		MDS.			MDS.				
	Minor produce ..	203	..	126	107	..	543	417	..
	Southern Circle.								
Vellore, North.	Timber	..	1,044	521	..	1,311	654	133	..
	Fuel	..	5,724	336	..	11,394	667	331	..
		MDS.			MDS.				
	Minor produce ..	81	..	61	68	..	52	..	9
Vellore, South.	Timber	..	3,429	38,361	..	3,127	34,569	..	3,792
	Fuel	..	31,102	1,728	..	34,671	1,926	198	..
					MDS.				
	Minor produce ..	..	..	..	320	..	17	17	..
Arcot, South	Fuel	..	2,880	536	..	..	..	..	536
	Bamboos ..	156	..	7	..	..	..	..	7
Salem, North.	Timber	..	4,346	3,259	..	2,276	1 509	..	1,750
	Fuel	..	20,811	2,601	..	1,144	138	..	2,463
	Bamboos ..	30,556	..	599	24,078	..	472	..	127
		MDS.			MDS.				
	Minor produce ..	641	..	64	449	..	45	..	19
Salem, South.	Timber	..	955	440	..	519	268	..	172
	Fuel	..	44,358	4,160	..	1,665	156	..	4,004
		MDS.			MDS.				
	Minor produce ..	289	..	6	203	..	4	..	2
Trichinopoly	Timber	..	20	5	..	223	60	55	..
	Fuel	..	1,646	103	..	51	6	..	97
	Bamboos ..	5,406	..	338	3,017	..	15	..	323
					MDS.				
	Minor produce ..	..	..	..	178	..	50	50	..

(*a*) Value below 8 annas.

(*b*) Value not settled for want of demand.

Statement showing the value of Timber and other Produce at sale depots for 1911–1912—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Southern Circle—cont.			Rs.			Rs.	Rs.	Rs.
Madura ..	Timber	..	679	170	..	12	3	..	167
	Fuel	..	948	95	..	..	..	..	95
Ramnad ..	Minor produce ..	MDS. 14	..	52	..	..	..	..	52
Tinnevelly ..	Timber	..	733	55	..	2,309	331	276	..
	Fuel	..	2,538	127	..	60	4	..	123
	Minor produce ..	MDS. 62	..	236	MDS. 52	..	198	..	38
	Western Circle.								
South Canara.	Timber	..	3,657	2,795	..	984	615	..	2,180
	Fuel	..	57,125	6,396	..	69,831	6,749	353	..
	Bamboos	104	..	12	549	..	61	49	..
	Minor produce ..	QRS. 30	..	226	QRS. 23	..	147	..	79
Malabar, North.	Timber	..	21,641	6,347	..	17,984	7,837	..	510
	Fuel	..	5,480	462	..	11,480	932	470	..
	Bamboos ..	2,422	..	218	1,057	..	95	..	123
	Minor produce ..	QRS. * ..	..	47	* ..	..	6	..	41
Malabar, South.	Timber	..	83,564	1,00,528	..	1,17,657	1,39,500	38,972	..
	Fuel	..	4,715	230	..	128	3	..	227
	Bamboos	53,229	..	3,726	27,367	..	1,915	..	1,811
	Minor produce ..	QRS. * ..	..	13	QRS. 3	..	500	487	..
The Nilgiris.	Timber	..	264	473	..	2,442	1,620	1,147	..
	Fuel	..	14,236	1,324	..	19,773	1,576	252	..
	Minor produce ..	QRS. 3	..	49	..	..	..	..	49
Kollegal.	Timber	..	3,634	23,599	..	1,086	472	..	23,127
	Bamboos	17,790	..	204	5,004	..	80	..	124
	Minor produce ..	QRS. 708	..	3,630	QRS. 650	..	1,269	..	2,361
Coimbatore, North.	Timber	..	51	8	..	713	9,974	9,966	..
	Minor produce ..	QRS. 3,420	..	3,303	QRS. 79	..	351	..	2,952
Coimbatore, Central.	Fuel	..	15,408	1,118	..	..	..	..	1,118
	Minor produce ..	QRS. 10,853	..	1,738	QRS. 40	..	14	..	1,724
Coimbatore, South.	Timber	..	75,280	1,00,645	..	94,478	1,22,867	22,222	..
	Fuel	..	1,124	76	..	53,031	1,072	996	..
	Bamboos ..	40	..	11	..	..	..	..	11
	Minor produce ..	QRS. 73	..	270	QRS. 54	..	533	263	..
	ABSTRACT.								
Northern Circle.	Timber	..	171,714	1,16,154	..	165,095	83,302	..	32,852
	Fuel	..	743,159	61,220	..	1,058,109	44,181	..	17,039
	Bamboos ..	133,251	..	2,269	23,896	..	389	..	1,880
	Minor produce ..	MDS. 93,057	..	3,635	50,776	..	3,297	..	338
	Total value ..	..	..	1,83,278	..	..	1,31,169	..	52,109
Central Circle.	Timber	..	26,798	11,967	..	9,113	9,652	..	2,315
	Fuel	..	804,319	50,088	..	282,175	18,181	..	31,907
	Bamboos ..	68,985	..	2,406	13,741	..	958	..	1,448
	Minor produce ..	26,774	..	6,309	9,510	..	3,792	..	2,517
	Total value ..	..	..	70,770	..	..	32,583	..	38,187

* Less than one quarter.

Statement showing the value of Timber and other Produce at sale depots for 1911-1912—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
					ABSTRACT—*cont.*				
				Rs.			Rs.	Rs.	Rs.
Southern Circle.	Timber	..	11,206	42,811	..	9,777	37,394	..	5,417
	Fuel	..	110,007	9,686	..	48,985	2,897	..	6,789
	Bamboos ..	36,118	..	944	27,095	..	487	..	457
		MDS.			MDS.				MDS.
	Minor produce ..	1,087	..	419	1,270	..	366	..	53
	Total value ..	..	..	53,860	..	..	41,144	..	12,716
Western Circle.	Timber ..	..	188,091	2,36,395	..	235,344	2,82,885	46,490	..
	Fuel	..	98,088	9,606	..	154,243	10,332	726	..
	Bamboos ..	73,585	..	4,171	33,977	..	2,151	..	2,020
		QRS.			QRS.				
	Minor produce	15,087	..	9,276	849	..	2,820	..	6,456
	Total value ..	..	..	2,59,448	..	..	2,98,188	38,740	..
Total Presidency.	Timber	..	397,309	407,327	..	419,329	4,13,233	5,906	..
	Fuel	..	1,755,573	130,600	..	1,543,512	75,591	..	55,009
		No.							
	Bamboos ..	311.939	..	9,790	98,709	..	3,985	..	5,805
		RS.			RS.				
	Minor produce ..	136,005	..	19,639	62,405	..	10,275	..	9,364
	Grand Total, Presidency.	..	..	567,356	..	..	5,03,084	..	64,279

ANNUAL

Forest Department,

SUMMARY of Revenue of the different districts

Budget heads—Receipts.	Direction.	Parlâkimedi.	Ganjam.	Vizagapatam.	Gôdâvari, Upper.	Gôdâvari, Lower.	Kistna.	Kurnool East.
								Northern
1	2	3	4	5	6	7	8	9
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—								
(*a*) Timber	22	275	20,200	1,907	5,241	50	1,324	16,780
(*b*) Firewood and charcoal	60	..	8,846	7,196	621	23,788	45,279	3,823
(*c*) Bamboos	..	290	9,215	10,698	..	..	323	4,686
(*d*) Sandalwood	..	..	..	..	..		..	..
(*e*) Grass and other minor produce ..	1	..	1,064	5	274	40	658	4,355
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	..	126	8,197	2,591	14,916	27,399	7,333	916
(*b*) Firewood and charcoal	..	777	2,586	1,743	142	6,961	14,645	416
(*c*) Bamboos	..	367	423	4,215	8,187	52,402	1,420	3,106
(*d*) Grazing and fodder grass ..	..	154	10,237	4,547	10,261	14,613	18,151	26,483
(*e*) Other produce	..	2,411	2,848	13,177	623	41,119	12,408	5,545
(*f*) Tree-owner's fees	..	..	846	525	..	7,081	9,751	1,192
(*g*) Other items	..	1	..	..	..	..	..	17
(*h*) Commutation fees	..	..	..		2,377	..	..	..
III. Confiscated drift and waifwood	..	19	388	35	935	2,693	102	225
IV. Revenue from forests not managed by Government.	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(*a*) Fines and forfeitures	..	1,082	2,853	1,968	587	4,161	6,014	4,935
(*b*) Other sources	50	10	2,007	350	684	4,092	658	352
Total, Receipts ..	133	5,512	69,710	48,957	44,848	1,84,399	1,18,066	72,781

Budget heads.	Direction.	North and South Vellore	South Arcot.	North Salem.	South Salem.	Trichinopoly *cum* Tanjore.	Madura.
							Southern
23	24	25	26	27	28	29	
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—							
(*a*) Timber	..	1,006	14	4,191	1,259	..	536
(*b*) Firewood and charcoal	655	40,708	64,029	22,406	25,699	1,544	60,185
(*c*) Bamboos	(*a*)+114	155	196	2,854	..	123	..
(*d*) Sandalwood	60,588	30,143	..	3	..	40	..
(*e*) Grass and other minor produce ..	8	631	2	127	22	95	95
II. Timber and other Produce removed from the forests by consumers or purchasers—							
(*a*) Timber	..	19,084	11,189	8,581	7,229	9,606	15,051
(*b*) Firewood and charcoal	..	31,992	33,380	6,375	13,155	60,682	89,362
(*c*) Bamboos	..	45,801	112	12,483	22,302	2,297	3,983
(*d*) Grazing and fodder grass ..	..	44,819	28,417	37,618	20,179	19,284	36,051
(*e*) Other produce	..	40,749	42,406	30,468	34,514	45,952	27,534
(*f*) Rents for trees tapped	..	7,163	2,228	1,345	326	79	9
(*g*) Other items	.	..	38	585	—825	145	..
(*h*) Commutation fees	..	..	..	..	384	..	..
III. Confiscated drift and waifwood	..	162	114	68	114	173	1,090
IV. Revenue from forest not managed by Government—							
(*a*) Shared and private forests ..	..	..	..	..	..	..	..
V. Miscellaneous—							
(*a*) Fines and forfeitures	..	23,606	16,515	5,341	7,481	25,852	16,854
(*b*) Other sources	10	3,204	433	4,292	6,709	3,824	2,403
Total, Receipts ..	61,261 (*a*) +114	2,89,223	1,99,073	1,36,737	1,38,548	1,69,696	2,53,153

Southern Circle.

NOTE (i).—The revenue under "Direction" is distributed as follows:—

I. (*b*) North Vellore, Rs. 769.
(*d*) South Vellore, Rs. 56,011; North Salem, Rs. 4,577.
I. (*e*) Rannad, Rs. 4; Tinnevelly, Rs. 4.
V. (*b*) South Vellore, Rs. 10.

ii.—Separate audited figures for North and South Vellore Divisions are not available.

(*a*) Revenue of North Vellore Division credited in the accounts of the Central Circle office in August 1911.

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 4*th September* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

FORM No. 80.

Madras Presidency.

for the Forest year 1911–1912.

Circle.			Central Circle.									
South Kurnool.	Kurnool West.	Total.	Direction.	Bellary.	Anantapur.	Guntúr.	Cuddapah, North.	Cuddapah, East.	Nellore.	Chingleput.	Chittoor.	Total.
10	11	12	13	14	15	16	17	18	19	20	21	22
RS.	RS.	RS.	RS.	RS.	RS.	Rs	RS.	RS.	RS.	RS.	RS.	RS.
20,419	41,754	1,07,972	..	2,442	1,012	5,042	19,586	16,248	704	167	6,124	51,325
23,570	37,874	1,51,057	..	13,302	19,833	50,576	23,396	51,475	86,473	8,236	31,030	2,84,321
10,979	43,978	80,169	..	84	266	15	122	..		10	3,998	4,495
..	..	..	..	..	.	..	..	..	..	..	..	..
3,824	4,828	15,049	..	607	..	2,794	92	186	4,470	3	1,202	9,354
1,736	720	63,934	..	13,955	12,118	25,661	7,573	1,435	8,866	12,815	2,645	85,068
3,281	6,281	36,832	..	5,530	2,274	3,591	13,103	5,939	50,874	13,908	9,990	1,05,209
4,400	1,478	75,998	..	1,513	..	..	3,630	5,625	56	85	4,400	15,309
9,122	17,000	1,10,518	..	35,498	26,787	65,905	22,407	17,409	47,485	11,256	23,089	2,49,836
9,943	20,902	1,08,976	..	59,882	1,09,793	19,714	13,444	14,949	34,946	14,245	33,678	3,00,651
3,074	17,525	39,994	..	27,205	11,033	4,850	1,717	1,535	2,521	3,539	3,170	55,570
217	..	235	..	..	..	.	..	721	..	25		746
..	..	2,377	..	102	113	180	99	1,504	482	27	176	2,683
903	626	5,926	..	..	..	..	..	..	..	..	..	..
..	..	.	..	..	..	..	..	..	..	..	..	..
2,125	2,012	25,737	..	8,656	6,869	14,227	3,172	5,013	6,312	4,128	6,055	54,432
2,184	784	11,171	92	2,500	452	600	102	850	675	1,573	726	7,570
95,777	1,95,762	8,35,945	92	1,71,276	(*a*)1,90,550	1,93,155	1,08,443	1,22,889	2,43,864	70,017	1,26,283	12,26,569

Circle.			Western Circle.									
Ramnad.	Tinnevelly	Total.	Direction	South Canara.	North Malabar.	South Malabar.	The Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Total.
30	31	32	33	34	35	36	37	38	39	40	41	42
RS.	RS.	RS.		RS.	RS.	RS.	RS.	RS.	RS.	RS	RS.	RS.
..	277	7,283	..	6,896	30,950	1,04,713	6,859	511	678	347	46,436	1,97,390
..	1,622	2,16,962	3,588	39,634	311	383	24,339	9,038	12,305	19,299	7,279	1,16,176
..	..	3,328	..	2,181	1,484	4,137	..	1,294	.	7	29	9,132
..	..	90,774	52,048	..	..	..	200	—2	23	..	..	52,269
50	93	1,123	45	12,163	136	5	1,059	2,436	8,950	1,596	1,150	27,540
3,083	2,527	76,350	..	10,211	28,545	3,611	1,112	1,815	3,182	3,323	1 851	53,650
24,959	53,629	3,13,534	..	16,371	22	15	2,407	700	3,024	25,707	1,993	53,239
12	398	87,388	..	1,913	311	591	2,735	678	11,841	5,197	1,824	25,090
1,485	5,578	1,93,431	..	10,795	2,673	8	8,108	19,589	27,957	5,485	3,615	78,230
8,708	20,474	2,50,805	240	18,709	4,078	1,778	2,438	1,765	6,205	9,242	3,151	47,606
..	112	11,262	..	2,625	..	2	..	4	..	..	..	2 631
..	..	—57	..	..	..	..	..	..	..	..	..	..
..	..	384	..	..	..	..	..	..	..	..	..	..
189	933	2,843	..	1,068	300	185	30	94	272	1,103	236	3,288
..	..	..	..	..	..	..	..	..	..	..	..	..
2,702	4,454	1,02,805	..	6,508	87	693	538	4,158	6,109	4,364	2,249	24,726
204	2,396	23,475	64,842	8 376	9,311	2,231	6,758	1,947	3,365	1,387	4,407	1,02,624
41,392	92,493	13,81,690	1,20,763	1,37,450	78,208	1,18,352	56,583	44,027	83,911	80,077	74,22 0	7,93,591

N. SETURAMA AIYAR,
Chief Superintendent.

NOTE (*Central Circle*).—The form has been corrected in the Circle Office by distributing the Madras Bank realisations and book adjustments in Madras depots to the respective supplying districts and by deducting the revenue realised and expenditure incurred on account of the sale of Kurnool fuel and bamboos from the Guntur and Anantapur districts for transfer to the Northern Circle to the credit of Kurnool district.

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 31*st August* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

NOTE (*Western Circle*).—Particulars of revenue credited under Direction:—

I. (*b*) Relates to the Bombay Presidency.
(*d*) Kollegal, Rs. 41,165; North Coimbatore Rs. 10,883.
(*e*) South Malabar, Rs. 45.

II. (*e*) Madura, Rs. 240.
V. (*b*) Direction Rs. 119; Nilgiris, Rs. 25; South Coimbatore Rs. 64,698.

North Malabar—Figures under I (*a*) and II (*a*) include Rs. 7,557 and 63 which should be credited to II (*a*) and II (*e*) respectively.

South Malabar—Revenue under I (*a*) includes Rs. 2,968 and 2,654 relating to South Coimbatore and North Malabar respectively.

(*a*) Corrected in the Board's office.

N. SETURAMA AIYAR,
Chief Superintendent.

Summary of Expenditure of the different districts for the Forest year 1911–1912.

Budget heads.	Direction.	Parlakimedi Maliahs.	Ganjam.	Vizagapatam.	Godavari, Upper.	Godavari, Lower.	Kistna.	Kurnool, East.	Kurnool, South.	Kurnool, West.	Total.
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	Rs.	s.	Rs.	Rs.	Rs.	Rs.	Rs.	s.	s.	Rs.	Rs.
I. Refunds and drawbacks ..	..	..	217	94	188	1,171	4,448	283	638	401	7,420
A. Conservancy and Works.											
Timber and other produce removed from the forest by Government Agency—											
(*a*) Timber	3	405	2,566	1,264	1,372	199	818	8,102	8,318	17,473	40,520
(*b*) Firewood and charcoal	6	92	4,758	4,525	569	9,912	28,872	655	20,795	27,150	97,334
(*c*) Bamboos	..	161	6,247	4,052	..	3	779	2,352	5,959	20,182	39,735
(*d*) Sandalwood ..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce ..	..	..	448	13	216	..	207	4,761	2,380	3,739	11,764
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	825	5,906	5,671	4,945	12,395	2,811	5,777	5,574	10,535	54,439
III. Confiscated drift and waifwood	..	..	6	..	260	1,379	3	1	51	93	1,793
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	460	..	..	..	..	..	..	460
VI Live-stock, stores, tools and plant—											
(*a*) Purchase of cattle.	..	2,500	1	..	..	.	..	..	..	..	2,501
(*b*) Feed and keep of cattle	..	494	2,550	1,012	741	..	..	..	1,310	1,266	7,373
(*c*) Stores, tools and plant	87	69	1,312	571	5,825	5,922	1,311	209	1,139	1,950	18,395
VII. Communications and buildings—											
(*a*) Roads and bridges	..	103	9,069	302	293	7,200	2,432	8,988	6,809	6,365	41,561
(*b*) Buildings ..	— 12	187	16,656	3,385	4,944	5,001	2,761	7,259	11,830	7,626	59,637
(*c*) Other works ..	..	..	811	2	758	598	883	67	1,805	1,790	6,714
VIII. Demarcation, improvement and extension of forests—											
(*a*) Demarcation ..	..	824	1,597	1,168	15,917	1,706	1,236	974	495	319	24,236
(*b*) Cost of forest settlement; compensation for land and rights ..	..	15	384	..	..	..	..	..	44	138	581
(*c*) Surveys—											
(1) Local ..	..	236	1,384	..	1,056	375	909	1,079	1,919	960	7,918
(2) India ..	665	72	..	..	..	..	..	.	..	..	737
(*d*) Working plans ..	..	..	..	..	..	440	..	..	230	304	974
(*e*) Sowing and planting	5,855	52	2,772	39	693	5,010	15,743	10,591	3,663	46,201	90,619
(*f*) Protection from fire	..	84	4,573	2,224	6,114	3,567	1,094	5,324	27,460	13,213	63,653
(*g*) Other works ..	..	2,514	33	..	..	330	11,627	75	74	1,069	15,722
IX. Miscellaneous—											
(*a*) Law charges ..	1,500	..	2	..	16	3	..	..	..	..	1,521
(*b*) Other charges ..	49	..	55	52	125	6	..	..	78	118	483
Total, A. Conservancy and Works	8,153	8,633	61,130	24,740	43,844	54,046	71,486	56,214	99,933	1,60,491	5,88,670

Summary of Expenditure of the different districts for the Forest year 1911–1912—*cont.*

Budget heads.	Direction.	Parlakimedi.	Ganjam.	Vizagapatam.	Godavari, Upper.	Godavari, Lower.	Kistna.	Kurnool East.	Kurnool, South.	Kurnool, West.	Total.
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle—cont.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
B. Establishments.											
Brought forward, Total A. Conservancy and Works	8,153	8,633	61,130	24,740	43,844	54,046	71,486	56,214	99,933	1,60,491	5,88,670
I. Salaries—											
(*a*) Conservators	26,571	..	..	..	..	..	..	..	..	..	26,571
(*b*) Superior officers	1,354	4,690	13,198	16,275	5,751	11,046	7,452	4,595	14,492	23,481	1,02,334
(*c*) Subordinate Forest and Depot establishments	7,332	5,067	20,381	7,622	10,065	11,984	8,797	11,445	18,534	21,917	1,23,144
(*d*) Office establishments	9,252	1,518	6,161	4,157	3,940	6,842	3,722	4,486	5,614	7,293	52,985
(*e*) Coronation Bonus	158	74	448	..	330	186	284	384	511	553	2,928
Exchange compensation allowance.	..	..	..	..	..	..	..	..	..	..	..
II. Travelling allowances—											
(*a*) Conservators	3,242	..	..	..	..	..	..	..	..	..	3,242
(*b*) Superior officers	..	1,438	1,862	1,835	1,256	2,129	1,481	1,518	2,727	2,499	16,745
(*c*) Subordinate Forest and Depot establishments	?,428	1,289	4,483	1,725	2,341	4,071	2,819	3,759	5,567	5,581	33,063
(*d*) Office establishments	,759	557	1,585	931	1,217	1,380	984	1,460	1,645	1,298	12,816
III. Contingencies—											
(*a*) Rents, rates and taxes	107	124	125	443	103	161	498	281	86	191	2,119
(*b*) Official postage and telegrams..	1,255	200	1,249	659	613	1,537	1,144	597	1,159	1,200	9,613
(*c*) Sundries	1,376	973	1,775	1,456	1,258	3,430	1,262	2,718	1,461	1,754	17,463
Total, B. Establishments ..	53,834	15,930	51,267	35,103	26,874	42,766	28,443	31,243	51,796	65,767	4,03,023
Grand Total of expenditure ..	61,987	24,563	1,12,397	59,843	70,718	96,812	99,929	87,457	1,51,729	2,26,258	9,91,693

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 31*st August* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

Summary of Expenditure of the different districts for the Forest year 1911–1912.

Budget heads.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, East.	Bellary.	Anantapur.	Chittoor.	Chingleput.	Total.
Central Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Revenue and Drawbacks.	21	947	1,453	1,038	142	438	836	109	494	5,478
A. Conservancy and Works.										
I. Timber and other produce removed from the forest by Government Agency—										
(*a*) Timber ..	..	879	261	10,192	4,173	32	2,121	556	52	18,266
(*b*) Firewood and charcoal ..	— 105	16,024	43,330	17,434	34,234	5,443	13,324	10,478	12,659	1,52,821
(*c*) Bamboos ..	..	81	..	49	..	9	313	1,527	265	2,244
(*d*) Sandalwood ..	..	..	..	..	..	88	..	8	..	96
(*e*) Grass and other minor produce ..	..	3,342	3,062	118	363	201	..	1,024	..	8,111
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	4,377	3,455	6,949	7,637	2,356	2,093	3,000	1,536	31,403
III. Confiscated drift and waifwood	..	12	1	4	2	5	5	14	..	43
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	8,000	..	..	..	8,000
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle ..	..	..	..	..	399	2,378	36	275	..	3,088
(*c*) Stores, tools and plant ..	75	2,031	1,782	425	813	1,960	815	1,343	92	9,336
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	..	..	366	497	598	1,105	1,371	536	4,473
(*b*) Buildings ..	..	4,628	6,041	8,383	3,706	17,199	10,037	1,906	1,634	53,534
(*c*) Other works ..	..	1,295	2,023	137	..	2,241	2,054	91	4	7,845
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	549	1,253	638	337	291	1,088	398	2,269	6,823
(*b*) Cost of forest settlement; compensation for land and rights ..	..	1,791	166	58	140	26	498	149	622	3,450
(*c*) Surveys—										
(1) Local ..	835	818	1,018	64	383	1,411	781	508	372	6,190
(2) India ..	..	..	..	..	..	..	..	..	..	..
(*d*) Working-plans.	..	..	339	318	..	..	..	..	..	657
(*e*) Sowing and planting ..	..	16,105	22,371	1,436	692	18,762	5,686	839	2,899	68,790
(*f*) Protection from fire	..	354	1,906	4,540	3,479	5,448	4,297	1,223	885	22,132
(*g*) Other works ..	..	10,579	6,672	4,034	1,205	13,138	11,205	9,254	9,147	65,234
IX. Miscellaneous—										
(*a*) Law charges ..	..	..	37	..	..	..	297	..	..	334
(*b*) Other charges ..	..	113	6	107	114	226	5	259	..	830
Total, A. Conservancy and Works	805	62,978	93,724	55,252	58,174	79,812	55,760	34,223	32,972	4,73,700

Summary of Expenditure of the different districts for the Forest year 1911–1912—*cont.*

Budget heads.	Direction.	Guntur.	Nellore.	Cuddapah, North.	Cuddapah, East.	Bellary.	Anantapur.	Chittoor.	Chingleput.	Total.
Central Circle—cont. *B. Establishments.*	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward, Total A. "Conservancy and Works"	805	62,978	93,724	55,252	58,174	79,812	55,760	34,223	32,972	4,73,700
I. Salaries—										
(*a*) Conservators	19,884	..	..	..	..	..	..	..	..	19,884
(*b*) Superior officers ..	4,245	16,070	8,535	5,804	5,817	10,681	16,249	12,758	3,870	84,029
(*c*) Subordinate Forest and Depot establishments.	11,985	14,208	15,914	8,588	11,670	21,403	12,127	13,082	8,481	1,17,458
(*d*) Office establishments ..	9,564	6,681	11,191	4,053	4,664	6,354	4,842	4,279	3,561	55,189
(*e*) Coronation Bonus ..	..	257	350	272	356	632	538	313	254	2,972
II. Travelling allowances—										
(*a*) Conservators	1,012	..	..	..	249	..	..	196	..	1,457
(*b*) Superior officers ..	260	2,011	958	1,360	1,060	1,781	1,024	1,018	1,299	10,771
(*c*) Subordinate Forest and Depot establishments ..	1,910	3,670	5,558	2,349	3,076	6,643	4,123	3,656	2,221	33,206
(*d*) Office establishments	445	1,124	2,698	769	848	1,074	1,393	690	546	9,587
III. Contingencies—										
(*a*) Rents, rates and taxes.	..	254	135	167	131	730	196	139	534	2,286
(*b*) Official postage and service telegrams ..	827	1,367	1,612	748	935	1,504	1,114	1,355	850	10,312
(*c*) Sundries	1,524	2,268	1,478	937	1,338	2,934	2,081	1,711	485	14,756
Total, B. "Establishments".	51,656	47,910	48,429	25,047	30,144	53,736	43,687	39,197	22,101	3,61,907
Grand Total of Expenditure.	52,461	1,10,888	1,42,153	80,299	88,318	133,548	99,447	73,420	55,073	8,356,07

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 31*st August* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

Summary of Expenditure of the different districts for the Forest year 1911-1912.

Budget heads.	Direction.	North and South Vellore	South Arcot.	North Salem.	South Salem.	Trichinopoly *cum* Tanjore.	Madura.	Ramnad.	Tinnevelly.	Total.
1	2	3	4	5	6	7	8	9	10	11
Southern Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Refund ands Drawbacks.	..	2,165	12,142	926	506	1,780	720	83	663	18,985
A. Conservancy and Works.										
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	649	..	2,218	1,108	409	70	..	−29	4,425
(*b*) Firewood and charcoal ..	..	26,860	9,923	14,847	19,334	4,216	50,059	..	516	1,25,755
(*c*) Bamboos ..	..	13	62	2,119	..	623	..	..	..	2,817
(*d*) Sandalwood ..	.	9,843	..	6,158	..	..	..	..	..	16,001
(*e*) Grass and other minor produce.		178	..	116	32	61	..	..	87	474
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	3,549	1,941	1,586	3,226	1,941	3,195	498	2,933	18,869
III. Confiscated drift and waifwood	..	16	..	..	1	6	..	..	1	25
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	..	60	..	122	..	..	182
(*b*) Feed and keep of cattle ..	..	980	..	4,866	1,516	..	604	..	..	7,966
(*c*) Stores, tools and plant ..	1,209	630	293	604	2,026	342	1,111	279	217	6,711
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	16,805	..	4,346	160	1,689	8,610	522	3,944	36,076
(*b*) Buildings ..	..	3,132	5,197	3,087	4,612	3,642	8,914	601	3,782	22,967
(*c*) Other works ..	..	735	460	966	620	16	255	2	181	3,235
VIII Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	626	358	475	335	975	3,896	396	361	7,422
(*b*) Cost of forest settlement; compensation for land and rights ..	..	..	..	34	20,000	..	3,675	599	598	24,906
(*c*) Surveys { Local.	203	406	501	1,272	574	802	1,178	..	272	5,208
(*c*) Surveys { India.	..	..	..	..	..	..		..	..	..
(*d*) Working plans.	..	..	..	..	..	..	..	..	..	..
(*e*) Sowing and planting ..	..	4,124	10,316	575	710	4,296	8,052	154	1,477	29,704
(*f*) Protection from fire	..	3,613	322	1,613	2,551	212	2,806	522	1,997	13,636
(*g*) Other works ..	..	15,421	13,096	6,158	5,267	7,751	13,589	1,251	5,232	67,765
IX. Miscellaneous—										
(*a*) Law charges ..	..	..	..	..	..	..	..	..	..	..
(*b*) Other charges ..	..	4	..	314	66	2	15	13	19	433
Total, A. Conservancy and Works	1,412	87,584	42,469	51,354	62,198	26,983	1,06,152	4,837	21,588	4,04,577

Summary of Expenditure of the different districts for the Forest year 1911–1912—*cont.*

Budget heads.	Direction.	North and South Vellore	South Arcot.	North Salem.	South Salem.	Trichinopoly *cum* Tanjore	Madura.	Ramnád.	Tinnevelly.	Total.
1	2	3	4	5	6	7	8	9	10	11
Southern Circle—cont.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
B. Establishments.										
Brought forward, Total A. "Conservancy and Works."	1,412	87,584	42,469	51,354	62,198	26,983	106,152	4,837	21,588	404,577
I. Salaries—										
(*a*) Conservators ..	12,000	..	..	..	..	..	1,350	..	..	13,350
(*b*) Superior officers ..	941	17,391	4,598	13,697	6,271	16,532	17,473	5,784	13,563	96,250
(*c*) Subordinate Forest and Depôt establishments ..	7,139	20,618	10,671	10,151	14,078	16,174	14,118	2,856	11,444	1,07,249
(*d*) Office establishments	4,933	7,479	5,974	5,360	5,003	7,554	5,898	1,688	4,966	48,855
(*e*) Delhi Coronation bonus	150	489	337	261	488	286	374	102	346	2,833
II. Travelling Allowances—										
(*a*) Conservators ..	1,086	..	..	..	..	..	..	..	..	1,086
(*b*) Superior officers ..	..	2,720	1,296	1,499	1,538	1,791	1,710	1,021	1,297	12,872
(*c*) Subordinate Forest and Depot establishments ..	226	5,170	3,091	3,792	4,011	5,371	4,349	712	2,662	29,384
(*d*) Office establishments	476	1,526	1,209	946	557	1,971	1,813	315	744	9,557
III. Contingencies—										
(*a*) Rents, Rates and Taxes	..	284	310	49	42	172	282	45	154	1,338
(*b*) Official postage and Service telegrams.	496	2,577	1,788	1,606	1,099	2,190	1,811	428	947	12,942
(*c*) Sundries	1,939	2,186	1,235	1,783	1,650	2,934	2,111	770	652	15,260
Total B. "Establishments."	29,386	60,440	30,509	39,144	34,737	54,975	51,289	13,721	36,775	3,50,976
Grand Total of Expenditure. A and B.	30,798	148,024	72,978	90,498	96,935	81,958	1,57,441	18,558	58,363	7,55,553

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, *4th September* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

Summary of Expenditure of the different districts for the Forest year 1911–1912.

Budget heads.	Direction.	South Canara.	North Malabar.	South Malabar.	The Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Total.
1	2	3	4	5	6	7	8	9	10	11
Western Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Refunds and Drawbacks.	..	1,147	33	85	112	165	543	152	168	2,405
A. Conservancy and Works.										
Timber and other produce removed from the Forest by Government Agency—										
(*a*) Timber	..	1,689	2,177	8,787	3,577	421	172	7	14,468	31,298
(*b*) Firewood and charcoal.	..	23,472	110	69	17,538	8,183	6,387	14,206	5,292	75,257
(*c*) Bamboos	..	935	829	1,932	..	610	..	5	13	4,324
(*d*) Sandalwood ..	..	..	..	..	261	4,346	13,899	..	..	18,506
(*e*) Grass and other minor produce.	..	3,501	17	6	509	857	4,097	627	894	10,508
II. Timber and other produce removed from the Forests by consumers or purchasers.	..	6,793	493	..	880	1,317	2,057	3,502	1,964	17,006
III. Confiscated, drift and waifwood.	..	3	..	..	2	7	2	22	7	43
V. Rent of leased forests and payments to shareholders in forests managed by Government.	..	..	82	2,575	4,426	..	..	..	2,500	9,583
VI. Live stock, stores, tools and plant—										
(*a*) Purchase of cattle.	..	..	2,114	628	*3,081	..	..	..	1,623	7,446
(*b*) Feed and keep of cattle.	..	6,411	30,517	16,743	6,351	368	..	..	22,172	82,562
(*c*) Stores, tools and plant.	1,464	1,640	577	1,563	1,411	238	1,255	600	2,383	11,131
VII. Communications and buildings—										
(*a*) Roads and bridges.	868	3,606	6,134	3,285	20,239	8,419	9,351	3,287	7,319	62,508
(*b*) Buildings	56	2,280	6,474	5,567	4,729	8,313	8,720	6,697	6,944	49,780
(*c*) Other works ..	112	486	1,062	518	408	614	863	94	1,578	5,735
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	512	265	134	796	991	1,237	521	1,256	5,712
(*b*) Cost of Forest Settlement; compensation for land and rights.	..	830	133	..	526	1,102	8	308	..	2,907
(*c*) Surveys { Local.	..	398	588	419	391	1,104	488	695	744	4,827
(*c*) Surveys { India.	..	..	..	..	..	..	..	..	..	..
(*d*) Working plans ..	..	..	..	120	1,294	..	..	25	..	1,439
(*e*) Sowing and planting.	564	170	654	8,565	3,099	165	426	173	4,262	18,078
(*f*) Protection from fire.	..	4,287	6,724	2,499	4,407	2,779	2,610	2,557	2,738	28,601
(*g*) Other works ..	..	459	1,566	1,687	1,252	2,591	4,124	5,912	1,960	19,551
X. Miscellaneous—										
(*a*) Law charges ..	50	..	..	..	3	..	1	..	..	54
(*b*) Other charges ..	202	32	60	32	3,502	178	250	208	252	4,716
Total, A. Conservancy and Works.	3,316	57,504	60,576	55,129	78,682	42,603	55,947	39,446	78,369	4,71,572

* Excludes Rs. 67 wrongly debited to A-VII (*a*).

Summary of Expenditure of the different districts for the Forest year 1911-1912—*cont.*

Budget heads.	Direction.	Forest college, Coimbatore.	South Canara.	North Malabar.	South Malabar.	The Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Total.
1	2	3	4	5	6	7	8	9	10	11	12
WESTERN CIRCLE—*cont.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
B. Establishments.											
Brought forward. Total, A "Conservancy and Works".	3,316	..	57,504	60,576	55,129	78,682	42,603	55,947	39,446	78,369	4,71,572
I.—Salaries—											
(*a*) Conservators ..	26,197	..	..	..	..	..	..	..	..	..	26,197
(*b*) Superior officers ..	1,733	1,250	10,955	16,200	8,680	19,672	5,448	18,155	5,232	13,416	1,00,741
(*c*) Subordinate Forest and Depot establishments	2,892	..	15,890	14,226	9,261	16,359	6,924	11,804	9,790	9,603	96,749
(*d*) Office establishments	9,357	..	6,954	6,204	4,760	5,831	3,769	5,666	4,142	5,145	51,828
(*e*) Delhi Coronation bonus ..	111	..	451	362	465	357	221	399	328	369	3,063
Exchange Compensation Allowance	..	..	..	..	..	..	..	..	..	..	..
II.—Travelling Allowance—											
(*a*) Conservators ..	2,328	..	..	..	..	..	..	..	..	..	2,328
(*b*) Superior Officers ..	200	59	1,352	1,691	2,081	3,010	3,710	2,697	1,149	1,856	17,805
(*c*) Subordinate Forest and Depot Establishments ..	739	..	4,001	3,253	2,990	3,224	1,581	3,191	2,362	3,142	24,483
(*d*) Office Establishments	478	..	1,519	1,148	810	530	1,570	860	794	731	8,440
III.—Contingencies—											
(*a*) Rents, Rates and Taxes	66	..	124	122	16	1,326	192	56	52	111	2,065
(*b*) Official Postage and Telegrams ..	722	20	1,514	782	528	601	667	1,043	536	949	7,362
(*c*) Sundries .. .	1,931	311	1,896	1,840	2,384	1,529	2,445	1,684	982	1,655	16,657
Total B.—"Establishments" ..	46,754	1,640	44,656	45,828	31,975	52,439	26,527	45,555	25,367	36,977	3,57,718
Grand total of Expenditure.	50,070	1,640	1,02,160	1,06,404	87,104	1,31,121	69,130	1,01,502	64 813	1,15,346	8,29,290

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, *4th September* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

SUMMARY of receipts and expenditure during 1911-1912 for each Circle and for the Presidency compiled in Board's office from Accountant-General's statements.

Budget heads	Northern Circle.	Central Circle.	Southern Circle.	Western Circle.	Grand total, Presidency.	
					1911-1912.	1910-1911.
1	2	3	4	5	6.	7
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency—						
(a) Timber	1,07,972	51,325	7,283	1,97,390	3,63,970	2,59,572
(b) Firewood, etc.	1,51,057	2,84,321	2,16,962	1,16,176	7,68,516	8,87,072
(c) Bamboos	80,169	4,495	3,328	9,132	97,124	96,462
(d) Sandalwood..	..	..	90,774	52,269	1,43,042	1,26,160
(e) Grass and other minor produce.	15,049	9,354	1,123	27,540	53,066	39,752
Total, I ..	3,54,247	3,49,495	3,19,470	4,02,507	14,25,719	14,09,019
II. Timber and other produce removed from the forests by consumers, etc.						
(a) Timber	63,934	85,068	76,350	53,650	2,79,002	2,02,604
(b) Firewood and charcoal ..	36,832	1,05,209	3,13,534	53,239	5,08,814	3,87,896
(c) Bamboos	75,998	15,309	87,388	25,090	2,03,785	1,60,553
(d) Grazing and fodder grass..	1,10,518	2,49,836	1,93,431	78,230	6,32,015	6,31,643
(e) Other produce	1,08,976	3,00,651	2,50,805	47,606	7,08,038	5,68,765
(f) Tree-owners' fees	39,994	55,570	11,262	2,631	1,09,457	1,01,146
(g) Other items..	235	746	— 57	..	924	2,327
(h) Computation fees	2,377	..	384	..	2,761	11,330
Total, II ..	4,38,864	8,12,389	9,33,097	2,60,446	24,44,796	20,66,264
III. Confiscated drift and waifwood ..	5,926	2,683	2,843	3,288	14,740	15,628
IV. Revenue from forests not managed by Government.	..	..	..	..	..	..
V. Miscellaneous—						
(a) Fines and forfeitures ..	25,737	54,432	1,02,805	24,726	2,07,700	1,98,509
(b) Other sources	11,171	7,570	23,475	1,02,624	1,44,840	82,520
Total, V ..	36,908	62,002	1,26,280	1,27,350	3,52,540	2,81,029
Grand Total, Receipts ..	8,35,945	12,26,569	13,81,690	*7,93,591	42,37,795	37,71,940
EXPENDITURE.						
I. Refunds and drawbacks	7,420	5,478	18,985	2,405	34,288	24,185
A. Conservancy and Works.						
I. Timber and other produce removed from the forests by Government Agency—						
(a) Timber	40,520	18,266	4,425	31,298	94,509	84,581
(b) Firewood and charcoal ..	97,334	1,52,821	1,25,755	75,257	4,51,167	5,32,426
(c) Bamboos	39,735	2,244	2,817	4,324	49,120	58,231
(d) Sandalwood	..	96	16,001	18,506	34,603	23,174
(e) Grass and other minor produce.	11,764	8,111	474	10,508	30,857	27,906
Total, A-I ..	1,89,353	1,81,538	1,49,472	1,39,893	6,60,256	7,26,318
II. Timber and other produce removed from the forests by consumers, etc.	54,439	31,403	18,869	17,006	1,21,717	1,17,313
III. Confiscated drift and waifwood.	1,793	43	25	43	1,904	2,031
V. Rent of leased forests and payments to shareholders, etc.	460	8,000	..	9,583	18,043	12,644
VI. Live-stock, stores, tools and plant—						
(a) Purchase of cattle ..	2,501	..	182	7,446	10,129	20,484
(b) Feed and keep of cattle ..	7,373	3,088	7,966	82,562	1,00,989	1,01,594
(c) Stores, tools and plant ..	18,395	9,336	6,711	11,131	45,573	51,330
Total, A-VI ..	28,269	12,424	14,859	1,01,139	1,56,691	1,73,408

* Includes Rs. 3,588 and Rs. 240 relating to the Bombay Presidency and Madura respectively.

Summary of receipts and expenditure during 1911-1912 for each Circle and for the Presidency compiled in Board's office from Accountant-General's statements—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Western Circle.	Grand total.	
					1911-1912.	1910-1911.
1	2	3	4	5	6	7
EXPENDITURE—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A. Conservancy and Works—cont.						
VII. Communications and buildings—						
(*a*) Roads and bridges ..	41,561	4,473	36,076	62,508	1,44,618	100,802
(*b*) Buildings	59,637	53,534	32,967	49,780	195,918	148,552
(*c*) Other works	6,714	7,845	3,235	5,735	23,529	15,721
Total, A-VII ..	1,07,912	65,852	72,278	1,18,023	3,64,065	2,65,075
VIII. Demarcation, improvement, etc.—						
(*a*) Demarcation	24,236	6,823	7,422	5,712	44,193	33,763
(*b*) Cost of forest settlement, etc.	581	3,450	24,906	2,907	31,844	8,171
(*c*) Surveys (1) Local ..	7,918	6,190	5,208	4,827	24,143	23,943
(2) India ..	737	..	..	..	737	— 224
(*d*) Working-plans	974	657	..	1,439	3,070	1,632
(*e*) Sowing and planting ..	90,619	68,790	29,764	18,078	207,191	2,34,209
(*f*) Protection from fire ..	63,653	22,132	13,636	28,601	128,022	1,12,486
(*g*) Other works	15,722	65,234	67,765	19,551	1,68,272	1,61,087
Total, A-VIII ..	2,04,440	1,73,276	1,48,641	81,115	6,07,472	5,75,067
IX. Miscellaneous—						
(*a*) Law charges	1,521	334	..	54	1,909	163
(*b*) Other charges	483	830	433	4,716	6,462	10,223
Total, A-IX ..	2,004	1,164	433	4,770	8,371	10,386
Total, A. Conservancy and Works, including Refunds and drawnbacks.	596,090	4,79,178	4,23,562	4,73,977	19,72,807	19,06,427
B. Establishments.						
I. Salaries—						
(*a*) Conservators	26,571	19,884	13,350	26,197	86,002	61,748
(*b*) Superior officers	1,02,334	84,029	96,250	1,00,741	3,83,354	3,32,523
(*c*) Subordinate forest and depôt establishments.	1,23,144	1,17,458	107,249	96,749	4,44,600	4,10,817
(*d*) Office establishments ..	52,985	55,189	48,855	51,828	2,08,857	1,90,617
(*e*) Delhi Coronation bonus ..	2,928	2,972	2,833	3,063	11,796	..
Total, B-I ..	3,07,962	2,79,532	2,68,537	2,78,578	11,34,609	9,95,705
II. Travelling allowances—						
(*a*) Conservators	3,242	1,457	1,086	2,328	8,113	9,109
(*b*) Superior officers	16,745	10,771	12,872	17,805	58,193	52,892
(*c*) Subordinate forest and depôt establishments.	33,063	33,206	29,384	24,483	1,20,136	1,17,970
(*d*) Office establishment ..	12,816	9,587	9,557	8,440	40,400	38,571
Total, B-II ..	65,866	55,021	52,899	53,056	2,26,842	2,18,542
III. Contingencies—						
(*a*) Rents, rates and taxes ..	2,119	2,286	1,338	2,065	7,808	9,158
(*b*) Official postage and telegrams.	9,613	10,312	12,942	7,372	40,239	39,768
(*c*) Sundries	17,463	14,756	15,260	16,657	64,136	48,952
Total, B-III ..	29,195	27,354	29,540	26,094	1,12,183	97,878
Total, B. Establishments ..	4,03,023	3,61,907	3,50,976	3,57,728	14,73,634	13,12,125
Grand Total, Expenditure including refunds and drawnbacks.	9,99,113	8,41,085	7,74,538	8,31,705	34,46,441	32,18,552
Surplus ..	— 1,63,168	+ 3,85,484	+ 6,07,152	— 38,114	+ 7,91,354	5,53,388
Total	8,35,945	12,26,569	13,81,690	7,93,591	42,37,795	37,71,940

ANNUAL FORM NO. 81.

Forest Department, Madras Presidency.

OUTSTANDINGS and Liabilities on account of Contractors and Disbursers for the Forest year 1911–1912.

District.	Department Debtor.			Department Creditor.			Balance due.	
	At commencement of year.	Recoveries in cash and value of supplies and works done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).
Northern Circle.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A P.	RS. A. P.	RS. A. P.	
Conservator, Northern Circle.	..	1,875 2 0	1,875 2 0	— 4 14 2	2,026 2 6	2,021 4 4	146 2 4	..
Parlakimedi	..	14,706 9 2	14,706 9 2	381 12 6	14,832 12 7	15,214 9 1	507 15 11	..
Ganjam	..	1,20,095 8 9	1,20,095 8 9	4,867 13 9	1,18,200 0 1	1,23,067 13 10	2,972 5 1	..
Vizagapatam	..	43,567 15 7	43,567 15 7	1,327 2 9	43,647 2 10	44,974 5 7	1,406 6 0	..
Godavari, Upper	..	55,972 8 5	55,972 8 5	3,420 1 2	57,524 9 9	60,944 10 11	4,972 2 6	..
Do. Lower	..	96,958 6 1	96,958 6 1	1,661 14 7	99,737 0 10	1,01,398 15 5	4,440 9 4	..
Kistna	..	72,733 7 7	72,733 7 7	756 3 10	74,871 0 2	75,627 4 0	2,893 12 5	..
Kurnool, East	..	99,496 6 9	99,496 6 9	1,342 1 0	1,00,221 0 1	1,01,563 1 1	2,066 10 4	..
Do. South	..	1,92,432 4 10	1,92,432 4 10	5,159 6 9	1,89,980 7 5	1,95,139 14 2	2,707 9 4	..
Do. West	..	3,01,369 11 9	3,01,369 11 9	6,016 12 11	3,00,105 15 9	3,06,122 12 8	4,755 0 11	..
Total ..	..	9,99,208 0 11	9,99,208 0 11	24,928 7 1	10,01,146 4 0	10,26,074 11 1	26,866 10 2	..
Central Circle.								
Conservator, Central Circle..	..	687 1 5	687 1 5	19 4 6	731 8 9	750 13 3	63 11 10	..
Guntur	..	1,02,541 1 1	1,02,541 1 1	3,122 5 4	1,00,894 3 8	1,04,016 9 0	1,475 7 11	..
Nellore	..	1,37,559 7 11	1,37,559 7 11	6,333 15 3	1,32,264 13 5	1,38,598 12 8	1,039 4 9	..
Cuddapah, North	..	1,04,719 4 8	1,04,719 4 8	3,017 2 7	1,03,263 5 0	1,06,280 7 7	1,561 2 11	..
Do. East	..	76,948 11 0	76,948 11 0	811 9 6	79,354 6 0	80,165 15 6	3,217 4 6	..
Chingleput	..	49,409 0 11	49,409 0 11	2,683 8 9	47,297 5 8	49,980 14 5	571 13 6	..
Chittoor	..	70,120 12 1	70,120 12 1	1,930 14 9	69,333 9 7	71,264 8 4	1,143 12 3	..
Bellary	..	1,20,855 10 1	1,20,855 10 1	3,469 2 6	1,20,873 5 8	1,24,342 8 2	3,486 14 1	..
Anantapur	..	1,04,803 6 4	1,04,803 6 4	1,574 12 5	1,05,159 11 0	1,06,734 7 5	1,931 1 1	..
Total ..	..	7,67,644 7 6	7,67,644 7 6	22,962 11 7	7,59,172 4 9	7,82,135 0 4	14,490 8 10	..
Southern Circle.								
Conservator, Southern Circle.	..	812 2 2	812 2 2		894 0 2	894 0 2	81 14 0	..
North Vellore	..	31,268 2 9	31,268 2 9	} 2,788 5 8	31,853 7 0	} 1,55,430 1 9	585 4 3	..
South do.	..	1,21,518 3 2	1,21,518 3 2		1,20,788 5 1		2,058 7 7	..
South Arcot	..	78,974 3 2	78,974 3 2	1,644 2 11	78,623 2 6	80,267 5 5	1,293 2 3	..
North Salem	..	78,173 7 8	78,173 7 8	6,621 0 9	74,312 1 5	80,933 2 2	2,759 10 6	..
South do.	..	77,950 1 7	77,950 1 7	2,820 12 3	76,742 0 4	79,562 12 7	1,612 11 0	..
Trichinopoly	..	58,554 13 9	58,554 13 9	1,488 3 3	57,950 0 9	59,438 4 0	883 6 3	..
Madura	..	1,51,887 1 1	1 51,887 1 1	5,753 7 4	1,48,965 11 2	1,54,719 2 6	2,832 1 5	..
Ramnad	..	10,614 14 10	10,614 14 10	74 3 4	10,670 2 0	10,744 5 4	129 6 6	..
Tinnevelly	..	48,214 10 11	48,214 10 11	1,325 15 1	48,136 4 9	49,462 3 10	1,247 8 11	..
Total .	..	6,57,967 13 1	6,57,967 13 1	22,516 2 7	6,48,935 3 2	6,71,451 5 9	13,483 8 8	
Western Circle.								
Conservator, Western Circle.	..	1,053 11 7	1,053 11 7	63 7 7	1,022 2 3	1,085 9 10	31 14 3	..
South Canara	..	1,14,363 6 6	1,14,363 6 6	2,363 13 6	1,14,592 5 2	1,16,956 2 8	2,592 12 2	..
North Malabar	..	80,428 14 7	80,428 14 7	2,648 10 10	79,719 8 2	82,368 3 0	1,939 4 5	..
South do	..	68,782 0 9	68,782 0 9	1,976 11 9	70,023 9 10	72,000 5 7	3,218 4 10	..
The Nilgiris	..	1,12,485 1 7	1,12,485 1 7	3,706 8 0	1,12,398 10 2	1,16,105 2 2	3,620 0 7	..
Kollegal	..	78,936 12 5	78,936 12 5	4,835 10 6	77,594 4 8	82,429 15 2	3,493 2 9	..
North Coimbatore	..	79,671 14 4	79,671 14 4	3,403 2 4	78,699 15 0	82,103 1 4	2,431 3 0	..
Central do.	..	60,544 13 7	60,544 13 7	2,169 7 1	59,698 9 1	61,868 0 2	1,323 2 7	..
South do.	..	1,07,966 1 3	1,07,966 1 3	4,441 4 10	1,06 722 9 8	1,11,163 14 6	3,197 13 3	..
Forest College, Coimbatore..		68 6 0	68 6 0		73 8 0	73 8 0	5 2 0	..
Total ..	..	7,04,301 2 7	7,04,301 2 7	25,608 12 5	7,00,545 2 0	7,26,153 14 5	21,852 11 10	..
Grand Total ..	..	31,29,121 8 1	31,29 121 8 1	96,015 1 8	31,09,798 13 11	32,05,814 15 7	76,693 7 6	..

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS, 31*st August* 1912.

N. SETURAMA AIYAR,
Chief Superintendent.

ANNUAL FORM No. 82.

Forest Department, Madras Presidency.

REVENUE received and outstanding on account of Revenue during 1911-1912.

District.	Particulars.	Outstandings at commencement of the year.	Value of sales and other revenue during the year.	Total.	Amount realized during the year.	Balance due to the department at end of year.	Remarks.
Northern Circle.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Direction	Timber and other forest produce.	..	133 0 0	133 0 0	133 0 0	..	
Ganjam	Do.	194 6 7	71,703 6 8	71,897 13 3	69,710 0 0	(*f*) 2,187 13 3	
Vizagapatam ..	Do.	4 12 0	50,465 6 0	50,470 2 0	48,957 0 0	(*a*) 1,513 2 0	
Godavari, Upper..	Do.	76 0 0	45,242 13 7	45,318 13 7	44,848 0 0	470 13 7	
Do. Lower.	Do.	11,203 4 8	1,77,786 0 3	(*l*)1,88,989 4 11	1,84,399 0 0	(*l*) 4,590 4 11	
Kistna	Do.	1,622 8 8	1,33,471 3 10	(*l*)1,35,093 12 6	1,18,066 0 0	(*b*)&(*l*)17,027 12 6	
Kurnool, East .	Do.	52 4 10	73,236 7 7	(*l*) 73,288 12 5	72,781 0 0	(*c*) & (*l*) 507 12 5	
Do. South ..	Do.	6,153 4 10	1,00,539 6 8	1,06,692 11 5	95,777 0 0	(*d*) 10,915 11 6	
Do. West ..	Do.	98 1 0	1,95,794 5 6	1,95,892 6 6	1,95,762 0 0	130 6 6	
	Total ..	(*l*) 19,404 10 7	(*l*) 8,48,372 2 1	(*l*)8 67,776 12 8	8,30,433 0 0	(*e*)&(*l*)37,343 12 8	
Centeal Circle.							
Direction ..	Timber and other produce.	..	92 0 0	92 0 0	92 0 0	..	
Bellary	Do.	59,479 8 6	1,42,812 5 1	2,02,291 13 7	1,71,276 0 0	31,015 13 7	
Anantapur ..	Do.	85,635 12 4	1,86,394 3 1	2,72,029 15 5	1,90,550 0 0	81,479 15 5	
Guntur	Do.	115 7 6	1,97,784 6 10	1,97,899 14 4	1,93,155 0 0	4,744 14 4	
North Cuddapah ..	Do.	2,894 5 4	1,08,750 12 3	1,11,645 1 7	1,08,443 0 0	3,202 1 7	
East do. ..	Do.	772 3 11	1,28,897 5 2	1,29,669 9 1	1,22 889 0 0	6,780 9 1	
Nellore	Do.	20,017 7 4	2,99,325 11 2	3,19,343 2 6	2,43,864 0 0	75,479 2 6	
Chingleput ..	Do.	3,526 8 7	73,409 9 4	76,936 1 11	70,017 0 0 +1,367 4 0(*a*)	5,551 13 11	
Chittoor	Do.	24,700 2 7	1,24,756 8 2	1,49,456 10 9	1,26,283 0 0	23,173 10 9	
	Total ..	1,97,141 8 1	12,62,222 13 1	14,59,364 5 2	12,26,569 0 0 (*g*)+1,367 4 0	2,31,428 1 2	
Southern Circle.							
Direction .. .	Timber and other forest produce.	..	..	..	(*h*)	..	
Vellore, North ..	Do.	6,122 11 4	4,10,969 3 0	4,47,229 4 0	3,46,013 0 0	20,419 1 9	
Do. South ..	Do.	30,716 13 8 (*i*)— 579 8 0			(*j*)+ 0 0 5	80,797 1 10	
Arcot, South ..	Do.	1,8534 5 3 (*d*)+ 29 3 0 (*i*)— 35 9 9	1,95,461 5 7	2,13,989 4 1	1,99,073 0 0 (*j*)+ 90 0 0	14,826 4 1	
Salem, North ..	Do.	28,218 15 9 (*i*)— 59 14 11	1,29,829 11 3	1,57,988 12 1	1,41,314 0 0	16,674 12 1	
Do. South ..	Do.	261 14 4	1,52,321 8 8	1,52,583 7 0	1,38,548 0 0	14,035 7 0	
Trichinopoly ..	Do	6,510 10 4 (*i*)— 245 5 4	1,80,990 1 8	1,87,255 6 8	1,69,696 0 0	17,559 6 8	
Madura	Do.	17,268 13 8	2,56,243 4 7	2,73,512 2 3	2,53,153 0 0	20,359 2 3	
Ramnad	Do.	6,222 8 0	40,415 4 11	46,637 12 11	41,396 0 0 (*j*)+ 32 12 11	5,209 0 0	
Tinnevelly ..	Do.	9,154 5 4	93,389 0 4	1,02,543 5 8	92,497 0 0 (*j*) +2 3 9	10,044 1 11	
	Total ..	1,23,011 1 8 (*i*)— 920 6 0 (*k*)+ 29 3 0	14,59,619 8 0	15,81,739 6 8	13,81,690 0 0 (*j*+ 125 1 1	1,99,924 5 7	
Western Circle.							
Direction	Timber and other forest produce.	..	118 13 8	118 13 8	118 13 8	..	
South Canara ..	....	5,076 2 6 — 126 8 9	1,47,082 4 2	1,52,031 13 11	1,37,450 0 0 * 8 5 0	14,573 8 11	
Malabar, North ..	....	25,271 5 11 —1,756 0 4	62,839 5 10	86,354 11 5	80,862 0 0 * 185 3 7	5,307 7 10	
Do. South ..	....	5,830 6 10	1,08,989 10 2	1,14,820 1 0	1,12,775 0 0 * 22 0 0	2,023 1 0	
The Nilgiris ..	....	3,461 7 10	55,275 5 2	58,736 13 0	56,608 0 0	2,128 13 0	
Kollegal	....	148 6 6	85,095 3 2	85,243 9 8	85,192 0 0 * 1 9 3	50 0 5	
Coimbatore,North..	....	758 4 0 — 250 0 0	94,285 12 0	94,794 0 0	94,794 0 0	..	
Do. Central.	....	13,682 6 8	80,361 4 6	94,043 11 2	80,077 0 0 * 20 0 0	13,946 11 2	
Do. South..	....	1,511 3 11	1,41,532 4 4	1,43,043 8 3	1,41,886 0 0 * 25 0 0	1,132 8 3	
	Total ..	55,739 12 2 — 2,132 9 1	7,75,579 15 0	8,29,187 2 1	7,89,762 13 8 * 262 1 10	39,162 2 7	
	Grand Total ..	3,92,273 4 5	43,45,794 6 2	47,38,067 10 7	42,30,209 4 7	5,07,858 6 0	

* Written off the accounts.

(*a*) Of this Rs. 975 are due in 1912-13. (*b*) All this amount is due in 1912-13. (*c*) Of this Rs. 500 are under earnest money deposit.
(*d*) Of this Rs. 89-7-6 are under earnest money deposit and Rs. 10,617-4-0 are due in 1912-13.
(*e*) Of this Rs. 28,846-4-6 are due in 1912-13 : and Rs. 589-7-6 are under earnest money deposit. (*f*) Of this Rs. 446-4-0 are due in 1912-13.
(*g*) Written-off Board's Proceedings Forest No. 156, Revenue, dated 24th April 1912
(*h*) The figures shown under "Direction" in form No. 80 have been distributed to the Districts concerned.
(*i*) Deductions in column 3 are on account of erroneous demands and collections in the previous year omitted to be adjusted towards outstandings.
(*j*) Amounts written off under Conservator's sanction.
(*k*) Amount omitted to be shown as outstandings in the previous return. (*l*) Corrected in the Board's office.

NOTE (*Western Circle*).—Deductions in column 3 are on account of erroneous demands and collections in the previous year omitted to be adjusted towards outstandings. Out of the total outstandings of Rs. 39,162-2-7 the amount actually due on or before 30th June 1912 was Rs. 4,619.

ANNUAL FORM No. 83.

Forest Department, Madras Presidency.

FINANCIAL results of the year 1911–1912.

District	Timber and other produce removed from the Forest by Government Agency.		Other Revenue.		Formation, Protection and Improvement of Forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjām	39,335	20,629	30,391	35,449	64,067	69,726	1,20,145
Vizagapatam ..	19,814	12,281	29,154	35,390	17,984	48,968	65,655
Gōdāvari, Upper ..	6,143	9,448	38,715	28,336	38,746	44,858	76,530
Do. Lower ..	23,890	17,070	1,60,529	50,211	38,247	1,84,419	1,05,528
Kistna	47,594	32,711	70,488	28,021	46,945	1,18,082	1,07,677
Kurnool, East ..	29,656	17,140	43,145	28,883	50,151	72,801	96,174
Do. South ..	58,804	41,412	36,993	41,100	77,934	95,797	1,60,446
Do. West	1,28,446	73,570	67,336	54,506	1,06,899	1,95,782	2,34,975
Total ..	3,53,682	2,24,261	4,76,751	3,01,896	4,40,973 { (a) 8,30,433 (b) + 5,512		9,67,130 (b)+24,563 * + 7,420
Central Circle.							
Direction	..	..	92	..	..	92	..
Bellary ..	16,435	13,611	1,54,841	59,790	70,331	1,71,276	1,43,732
Anantapur ..	21,111	21,919	1,69,439	40,643	44,549	1,90,550	1,07,111
Guntūr	58,427	26,418	1,34,728	41,504	49,406	1,93,155	1,17,328
Cuddapah, North ..	43,196	30,195	65,247	29,146	24,842	1,08,443	84,183
Do. East ..	67,909	41,702	54,980	31,211	20,589	1,22,889	93,502
Nellore	91,647	60,966	1,52,217	33,950	56,160	2,43,864	1,51,076
Chingleput ..	8,416	13,186	61,601	19,562	26,104	70,017	58,852
Chittoor	42,354	17,384	83,929	30,971	31,468	1,26,283	79,823
Total ..	3,49,495	2,25,381	8,77,074	2,86,777	3,23,449	12,26,569 {	8,35,607 * + 5,478
Southern Circle.							
Vellore, North and South.	1,29,423	47,328	2,16,590	51,378	54,995	3,46,013	1,53,701
Arcot, South	64,241	12,006	1,34,832	27,747	36,097	1,99,073	75,850
Salem, North	34,158	39,161	1,07,156	31,105	23,992	1,41,314	94,258
Do. South	26,980	28,035	1,11,568	28,837	43,705	1,38,548	1,00,577
Trichinopoly	1,802	7,012	1,67,894	54,586	25,493	1,69,696	87,091
Madura	60,816	61,023	1,92,337	40,211	61,188	2,53,153	1,62,422
Rāmnād	54	28	41,342	14,308	5,537	41,396	19,873
Tinnevelly	1,996	1,038	90,501	36,171	24,572	92,497	61,781
Total ..	3,19,470	1,95,631	10,62,220	2,84,343	2,75,579	13,81,690 {	7,55,553 * + 18,985
Western Circle.							
South Canara	60,874	53,570	76,591	37,560	18,436	1,37,465	1,09,566
Malabar, North ..	27,978	8,884	52,399	65,042	38,770	80,377	1,12,696
Do. South	1,03,661	51,628	9,129	5,413	36,407	1,12,790	93,448
The Nilgiris	32,457	61,940	24,166	16,698	58,854	56,623	1,37,492
Kollegal	54,442	22,272	30,765	15,260	38,021	85,207	75,553
Coimbatore, North ..	32,839	38,065	61,970	29,836	40,403	94,809	1,08,304
Do. Central ..	21,249	20,230	58,842	23,765	27,228	80,091	71,223
Do. South ..	57,862	51,160	84,039	35,949	34,664	1,41,901	1,21,773
Total ..	3,91,362	3,07,749	3,98,401	2,29,523	2,92,783	+ 7,89,763 {	8,30,055 + (c) 1,640 + * 2,405
Grand Total, Presidency.	14,14,009	9,53,022	28,14,446	11,02,539	13,32,784	42,28,455 + (b) 5,512 {	33,88,345 +(b)24,563 + (c) 1,640 + * 34,288

(a) This includes Rs. 133 shown under Direction in Form No. 8C.
(b) This relates to Parlākimedi Maliahs.
(c) Relates to Madras Forest College, Coimbatore.

* Refunds and drawbacks.

† Excludes Rs. 3,588, and Rs. 240 relating to the Bombay Presidency and the Southern Circle (Madura) respectively.

ANNUAL FORM No. 84.

Forest Department, Madras Presidency.

STATEMENT of elephants and other live-stock during 1911-1912.

PART I.

District.	On hand at the commencement of the year.		Number received during the year.	Number disposed of during the year.	On hand at the end of the year.		Total expenditure on maintenance during the year.
	Number.	Value.			Number	Value.	
				NORTHERN CIRCLE.			
				(1) *Elephants.*			
		Rs.				Rs.	Rs.
Ganjām	4	5,950	..	1	3	5,450	2,559
Vizagapatam	1	1,500	..	..	1	1,500	1,012
Godāvari, Upper	1	900	..	..	1	900	741
Kurnool, West	1	1,600	1	..	2	3,100	1,300
Total ..	7	9,950	1	1	7	10,950	5,612
				WESTERN CIRCLE.			
South Canara	..	..	2	2	..	..	198
Malabar, North	57	1,05,600	13	10	60	1,10,150	26,224
Do. South	28	46,100	3	4	27	45,900	14,798
The Nilgiris	11	21,800	12	7	16	28,050	3,092
Coimbatore, South ..	11	32,000	6	..	17	41,300	9,049
Total ..	107	2,05,500	36	23	120	2,25,400	53,361
Grand Total ..	114	215,450	37	24	127	2,36,350	58,973
				(2) *Other live-stock.*			
				NORTHERN CIRCLE.			
Ganjām	6	189	..	4	2	Confiscated.	84
Kurnool, South	14	280	2	4	12	240	1,488
Total ..	20	469	2	8	14	240	1,572
				CENTRAL CIRCLE.			
Bellary	45	492	..	45	..	..	2,378
Anantapur	..	..	..	..	..	..	+ 36
Guntūr	..	..	..	..	..	..	..
North Cuddapah	..	..	..	..	..	..	..
East do.	11	753	..	* 6 5	..	..	398 + 1
Nellore	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..
Chittoor	11	289	† 6	3	14	625	276 — 1
Total ..	67	1,534	6	59	14	625	3,038
				SOUTHERN CIRCLE.			
Vellore, North	..	..	2	..	2	40	136
Do. South	15	625	..	15	..	..	1,174
Salem, North	74	2,354	..	74	..	..	4,866
Do. South	18	900	..	18	..	..	1,506
Madura	8	395	..	8	..	..	726
Total ..	115	4,274	2	115	2	40	8,408
				WESTERN CIRCLE.			
South Canara	75	5,094	..	3	72	4,122	5,634
Malabar, North	67	4,515	..	63	4	280	4,500
Do. South	30	1,081	..	5	25	1,018	2,116
The Nilgiris	17	1,051	..	1	16	1,000	2,791
Kollegal	10	665	..	10	..	..	368
Coimbatore, South ..	42	2,336	52	5	89	5,738	10,680
Total ..	241	14,742	52	87	206	12,158	26,089
Grand Total, other live stock, Presidency.	443	21,019	62	259	236	13,063	39,157

* Transferred to Chittoor. † Received from East Cuddapah.

Statement of elephants and other live-stock during 1911–1912—*cont.*

PART II.

District.	Name.	When purchased or otherwise obtained by Government.	Age.	How disposed of.
		Elephants gone off the list during the year.		
Ganjam ..	Mahabat Pyari ..	May 1906	76	Made over to the Zamindar of Bodagada without charge as per Board's Proceedings Forest No. 452, Mis., dated 6th March 1912.

CENTRAL CIRCLE—*Nil.*

SOUTHERN CIRCLE—*Nil.*

WESTERN CIRCLE.

			YRS.	
South Canara.	1. Samson	Purchased from Mr. Morgan in 1885 for Rs. 350.	40	Sent back to North Malabar on 22nd June 1912.
	2. Emily	Captured on 23rd June 1899	42	Do. do.
Malabar, North.	1. Hilda	Captured on 18th April 1907	25	Transferred to South Coimbatore.
	2. Nellie	Born to "Isabella" on 22nd July 1907 ..	5	Sold.
	3. Rohini	Do. "Meenakshi" on 30th January 1908.	4	Died on 20th February 1912.
	4. Kapila	Captured on 29th June 1908	29	Transferred to South Coimbatore.
	5. Theebaw ..	Captured in January 1886	28	Transferred to South Malabar.
	6. Adonis	Born to Peri on 8th November 1911 ..	..	Died on 19th November 1911.
	7. Indra	Born on 6th July 1911	..	Died on 24th July 1911.
	8. Queen	Captured on 5th June 1910	2	Died on 28th March 1912.
	9. Samson	Purchased from Mr. Morgan in 1885 for Rs. 350.	40	Transferred to South Canara in April 1912.
	10. Emily	Captured on 23rd June 1899	42	
Malabar, South.	1. Peyru	Transferred from Wynad in 1882 (Original purchase or capture not traceable).	81	Died on 22nd July 1911.
	2. Tajmahal ..	Captured on 26th January 1910	20	Do. 17th ,,
	3. Rajamani ..	Captured on 13th July 1910	5	Do. 13th April 1912.
	4. Aga khan ..	Captured on 2nd March 1911	9	Do. 2nd May ,,
The Nilgiris.	1. Sunder Lal ..	Captured on 24th February 1911	11	Transferred to North Malabar on 11th February 1912.
	2. Madan Lal ..	Do. 3rd March 1911	14	
	3. Amir Ali ..	Do. 5th April 1911	9	
	4. Moola Baksh ..	Do. 6th April 1911	9	
	5. Shajahan ..	Do. 11th May 1911	16	
	6. Bakir Ali ..	Do. 10th ,, ...	9	
	7. Aurangazib ..	Do. 20th June 1911	6	

ANNUAL FORM No. 85.

Forest Department, Madras Presidency.

ABSTRACT showing the value of stores, tools and plant for 1911–1912.

District.	Buildings.				Stores.				Total.				Difference in value.	
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		In favour of the year.	Against the year.
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Circle.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.	Rs.
Direction ..	1	800	1	750	336	2,414	345	2,872	337	3,214	346	3,622	408	..
Ganjām ..	86	37,917	119	49,639	2,168	9,434	2,427	9,821	2,254	47,401	2,546	59,460	12,059	..
Vizagapatam ..	63	7,793	72	9,422	1,199	2,810	1,184	2,731	1,262	10,603	1,256	12,153	1,550	..
Gōdāvari, Upper.	83	24,191	117	28,585	1,808	12,626	2,004	16,782	1,891	36,817	2,121	45,367	8,550	..
Gōdāvari, Lower.	168	73,524	176	68,097	2,326	13,962	2,266	12,177	2,494	87,486	2,442	80,274	..	7,212
Kistna ..	51	(*b*)6,528	59	8,102	655	7,231	718	7,801	706	13,759	777	15,903	2,144	..
Kurnool, East.	14	13,941	18	20,545	2,578	6,806	2,870	7,364	2,592	20,747	2,888	27,909	7,162	..
Do. South.	14	13,220	30	28,440	2,610	9,765	2,840	12,458	2,624	22,985	2,870	40,898	17,913	..
Do. West.	98	50,678	89	44,123	5,942	9,997	4,483	10,228	6,040	60,675	4,572	54,351	..	6,324
Total ..	578	2,28,592	681	2,57,703	19,622	75,095	19,137	82,234	20,200	3,03,687	19,818	3,39,937	(*b*)36,250	..
Central Circle.														
Direction ..	..	..	..	..	897	2,846	820	3,109	897	2,846	820	3,109	263	..
Bellary ..	36	35,116	67	43,458	2,091	7,829	2,546	9,516	2,127	42,945	2,613	52,974	10,029	..
Anantapur ..	31	31,630	32	37,068	1,580	5,869	1,647	6,078	1,611	37,499	1,679	43,146	5,647	..
Guntūr ..	63	8,206	47	7,079	1,094	9,669	1,642	10,576	1,087	17,875	1,689	17,655	..	220
North Cuddapah.	47	10,068	40	8,893	1,669	6,873	1,679	7,151	1,716	16,941	1,719	16,044	..	897
East Cuddapah.	69	13,876	68	14,291	1,040	6,512	1,109	7,196	1,109	20,388	1,177	21,487	1,099	..
Nellore ..	21	19,799	18	18,702	56,111 LB. 48	47,732	58,988	48,190	56,132 LBS. 48	67,531	59,006	66,892	..	639
Chingleput ..	59	(*a*) 10,997	45	9,893	(*a*) 1,276	(*a*) 6,974	1,185	5,951	(*a*) 1,335	17,971	1,230	15,844	..	2,127
Chittoor ..	53	16,937	53	16,271	1,446	4,409	1,504	3,880	1,499	21,346	1,557	20,151	..	1,195
Total ..	379	1,46,629	370	1,55,655	67,134 LBS. 48	98,713	71,120	1,01,647	67,513 LBS. 48	2,45,342	71,490	2,57,302	11,960	..
Southern Circle.														
Direction ..	..	..	..	..	..	..	1,561	3,135	..	..	1,561	3,135	3,135	..
North Vellore.	* 41	*11,477	41	11,477	* 1,241	* 3,421	1,299	3,874	1,282	14,898	1,340	15,351	453	..
South do.	44	26,768	44	27,211	* 3,356	* 8,630	3,784	8,411	3,400	35,398	3,828	35,622	224	..
South Arcot ..	65	15,188	69	18,381	1,419	5,208	1,510	5,315	1,484	20,396	1,579	23,696	3,300	..
North Salem ..	43	17,600	48	21,189	2,476	9,235	2,566	7,225	2,519	26,835	2,614	28,414	1,579	..
South do. ..	* 44	*15,437	45	14,977	* 2,460	7,914	2,939	9,064	2,504	23,651	2,984	24,041	390	..
Trichinopoly ..	34	8,362	35	11,044	3,802	14,938	3,798	15,413	3,836	23,300	3,833	26,457	3,157	..
Madura ..	97	56,531	98	56,635	2,977	7,496	3,128	7,391	3,074	64,027	3,226	64,026	..	1
Rāmnād ..	13	* 15,304	18	13,620	* 422	* 2,067	416	1,779	435	17,371	434	15,399	..	1,972
Tinnevelly ..	66	32,020	66	31,741	1,359	3,423	1,357	2,592	1,425	35,443	1,423	34,333	..	1,110
Vernacular Training School.	..	..	..	..	..	..	317	1,685	..	..	317	1,685	1,685	..
Total ..	447	1,98,987	464	2,06,275	19,512	62,332	22,675	65,884	19,959	2,61,319	23,139	2,72,159	10,840	..
Western Circle.														
Direction ..	1	91	1	86	1,839	7,677	1,730	7,245	1,840	7,768	1,731	7,331	..	437
South Canara ..	57	24,190	56	24,091	1,846	11,469	1,892	11,272	1,903	35,659	1,948	35,363	..	296
Malabar North	68	30,687 (*c*)9,985	68	41,676	2,594	10,475	2,453	7,060	2,662	51,147	2,521	48,736	..	2,411
Do. South.	42	41,011	41	33,629	3,535	5,206	2,068	6,088	3,577	46,217	2,109	39,717	..	6,500
The Nilgiris ..	75	28,631	62	28,501	1,221	9,817	1,231	8,956	1,296	37,948	1,293	37,457	..	491
Kollegal ..	25	10,925	28	18,927	1,541	6,856	1,390	6,631	1,566	17,781	1,418	25,558	7,777	..
Coimbatore North.	55	31,374	60	43,304	2,406	9,894	2,559	10,687	2,461	41,268	2,619	53,991	12,723	..
Do. Central	48	12,670	56	15,124	7,260	8,503	7,646	9,287	7,308	21,173	7,702	24,411	3,238	..
Do. South.	59	23,658	63	28,992	16,247	34,945	16,519	38,988	16,306	58,603	16,582	67,980	9,377	..
Vernacular Training School.	..	..	..	..	378	2,539	408	2,773	378	2,539	408	2,773	234	..
Total ..	430	2,13,222	435	2,34,330	38,867	1,06,881	37,896	1,06,987	39,297	3,20,103	38,331	3,43,317	23,214	..
Grand Total ..	1,834	7,87,430	1,950	853,963	145,135 lbs. 48	343,021	150,828	358,752	146,969 lbs. 48	1,130,451	152,778	12,12,715	82,264	..

* As revised by the Collector.

(*a*) Revised figure furnished by Collector. (*b*) Corrected in the Board's Office.

(*c*) Last year's closing balance reported to be incorrect.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following paper :—

Proceedings of the Board of Revenue (Land Revenue), Forest No. 212, dated 18th November 1912.

The Hon'ble Mr. W. O. HORNE, C.S.I.

The Board submits to Government the progress report of Forest Administration in the Madras Presidency for the year ending with 30th June 1912.

CONSTITUTION OF STATE FORESTS.

2. *Alteration in area.*—Seven square miles, chiefly in Bellary, Chittoor, Tinnevelly, South Canara and Malabar North, were constituted reserved forests during the year, while the adoption of the areas given in the Survey of India maps in Ganjām and Kurnool caused a reduction of 34 square miles and about 1 square mile was disafforested. These changes resulted in a net decrease of 28 square miles in the total area of reserved forests which stood at 18,601 square miles at the close of the year.

The area of reserved lands decreased from 1,401 square miles to 838 square miles. Seventy-five square miles in Ganjām were notified under section 4 of the Forest Act, 7 square miles were notified under section 16 and 1 square mile was deducted by correct computation of areas. 66 square miles in Anantapur, 15 square miles in Kistna, and 10 in South Canara, which had been notified by Collectors under the rules under section 26 of the Forest Act, were also removed from the list of reserved lands during the year. Five hundred and forty square miles of forests in the Nugur taluk, erroneously shown as reserved lands in the report for last year, have now been excluded. The selection, preliminary demarcation and mapping of the Nugur forests are in progress. In the Parlākimedi maliahs, three blocks of an aggregate extent of 6,000 acres were notified as reserved lands by the Collector, and the report regarding the reservation of the upper slopes of the hills, referred to in the report for the previous year, was submitted to Government with the Agent's letter, D. Dis. No. 256/Ag.-12, dated 13th April 1912, recorded in G.O. No. 1582, Revenue, dated 27th May 1912. The total number of blocks selected up to the end of the year under report in both the Parlākimedi and Chandragiri ranges was 11, aggregating 90 square miles.

3. *Forest Settlement.*—Five hundred and twenty-three square miles, notified under section 4 of the Forest Act, remained to be notified under section 16 of the Forest Act at the end of the year. The settlement of 392 square miles has been practically completed, leaving a balance of 131 square miles still to be done. The settlement work was carried out, as in the previous year, by Revenue Divisional Officers. The Special Deputy Collector appointed to revise the boundaries of some of the existing reserves in Madura continued his work throughout the year, while the officer appointed for the Kollegal division completed his task in December 1911. It is proposed to extend the term of the former by another two years in order to enable him to investigate the boundaries of the reserves in the Kodaikanal range.

4. *Demarcation.*—The total length of boundaries at the commencement and close of the year was 37,716 and 37,385 miles; the decrease was due to rectification of figures wrongly reported in previous years. Five hundred and twenty-two miles were newly demarcated during the year under review against 549 miles in 1910–1911, leaving 646 miles, chiefly in Madura, South Canara, North Malabar and North

Coimbatore, still to be demarcated. Good work has been done in demarcating reserves and enclosures in the Palni hills of Madura but the work in North Coimbatore has been less satisfactory.

The length of old boundaries repaired during the year, namely, 17,583 miles, was less than in the previous year by 4,642 miles, and the length of boundaries cleared free of cost by subordinates declined from 18,678 to 10,293 miles.

Exclusive of the 171 miles of boundary lines between Zamindari dupati lands and Government unreserves in Bhadrachalam, surveyed and demarcated at a total cost of Rs. 15,771, the average cost per mile of fresh demarcation decreased from Rs. 29–9–8 per mile to Rs. 24–6–3, while the cost of repairs fell from Rs. 4–12–10 to Rs. 2–8–3 per mile. Notwithstanding the orders issued in reviewing the report for the last year, the expenditure incurred in the clearing and demarcation of coupe and compartment lines and enclosure boundaries has been treated as capital expenditure and included in Form No. 67 instead of being debited to the working of the forests, in the districts of Nellore and Chingleput in the Central Circle and in all the districts of the Western and Southern Circles except South Canara, South Malabar and Rāmnād and Tinnevelly. The special attention of the Collectors concerned is again drawn to these mistakes.

5. *Surveys.*—The survey of India Party No. VII carried their work in South Canara to completion. The maps of some reserves have, however, not yet been published. The Survey of India Party No. VIII resurveyed nine square miles of Anamalai reserved forest. The special establishment sanctioned for the dupati survey completed 65 villages in addition to the 30 finished in the previous year and at the end of the year there remained still 68 small villages to be surveyed. It is hoped that the work will be completed by the end of December next. A consolidated map of the teak plantations in South Malabar was prepared and printed at the Madras Survey Office. As usual, the departmental surveyors did miscellaneous work, such as survey of coupes, alignment of roads and fire lines and verification of boundaries and preparation of stock and working-plan maps. In Guntūr, a detailed stock survey over 29 square miles was made with a view to preparation of working-plans. The special forest map officer prepared the reference maps of the Nilgiris and South Malabar and part of the map of North Malabar. Excellent work is reported to be being done by this officer whose term of employment it will be necessary to continue.

Management of Forests—(1) Regulation of Management.

6. *Working-plans.*—During the year working-plans for 45 square miles were sanctioned and plans were either under preparation or revision for 2,709 square miles. As observed in the review of the previous year, more than half the area of reserved forests in the Presidency still remains to be dealt with. It is hopeless to expect much progress in this important branch of administration so long as there are barely enough officers to man all districts. There is, moreover, little prospect of this undesirable state of things being remedied in the near future.

The working-plans for the Marrigudem and Bhadrāchalam ranges which have been revised and resubmitted to the Board were held over pending inspection of the localities by the Forest Commissioner. His plans were however upset by his work on the Forest Committee. The working-plan for the Coast range in South Arcot has been held over because the Board is of opinion that the time has come for the Department to begin to retire from the casuarina planting business which has been very fully taken up by private enterprise. It is enquiring into the possibility of gradually getting out of the business without loss and does not propose to extend its operations. Deviations from the sanctioned working-plans have been on the whole satisfactorily explained in all the circles except the Central, and were due principally to want of either export roads or sufficient staff and labour or effective demand. In the Central Circle, there has been a regrettable want of control over the plans. Work was generally much in arrears. Besides, the order of allotment and the prescriptions in regard to felling were not adhered to in some districts, while in others the works of improvement and fire protection provided in the plans were not carried out. The control registers and journals were also found defective in many divisions of the circle. These matters have been brought to notice by the Conservator, who is taking energetic measures to effect an improvement.

The Board hopes that the contract system of fellings, which has now been very generally adopted, will result in work being kept more abreast of sanctioned plans. Fuel coupes will be much more fully worked and arrears should not in future occur to nearly the same extent as hitherto.

7. The annual plans of operations were generally adhered to. Want of staff hindered the execution of works, but, as observed above, the extension of contract work will tend to remedy this defect. It is observed from the reports of the Western and Southern Circles that several important works were held over for want of funds. The Board, however, considers that this explanation of the failure to adhere to the plan of operations cannot be accepted. The Conservators concerned should have applied for funds in time, more especially as a large amount was surrendered in February last.

(2) Communications and Buildings.

8. Good progress was made during the year in the construction and maintenance of communications in all the circles except in the Central, and greater attention was paid to the construction of rest-houses, range offices and quarters for subordinates. The falling off in expenditure on roads from Rs. 5,438 to Rs. 4,473 in the Central Circle, is, as observed by the Conservator, regrettable. Roads are more necessary to development than buildings and without them many working-plans are a dead letter. It is hoped that the Conservator will see that better progress is shown during the current year. The total outlay on roads and bridges rose from Rs. 1,00,802 to Rs. 1,44,618 and that on buildings from Rs. 1,48,552 to Rs. 1,95,918. The tramways in Nellore and South Coimbatore were slightly extended and worked at a profit. The plant of the mono-rail in the Bundamurlanka plantation has been ordered to be sold. The estimates for the construction of a forest tramway and road in the Tekkadi leased forests at a cost of over a lakh of rupees are now awaiting the sanction of Government; the proposal to run a road train in Malabar has not met with their approval.

The Board observes that, with the increasing cost of cart transport, it will undoubtedly be necessary to develop mechanical transport at an early date. Road trains are in regular work in Bombay, the Central Provinces and Mysore and it is understood that they are considered a success.

9. *Miscellaneous works.*—The expenditure under this head increased from Rs. 15,721 to Rs. 23,529, the money being spent as usual on fencing compounds and reserves, construction of and repairs to tanks and wells. In Anantapur, 13 miles of stone wall were built round closed areas and in North Malabar the floating power of the Kanoth stream was greatly improved by the construction of permanent and temporary dams. The cost of a boat purchased for the use of the Forest subordinates in South Arcot should not have been charged to A-VII (*c*), but to A-VI (*c*).

(3) Protection of Forests.

10. The following table compares the number and nature of the forest offences reported during the year with that in 1910–11 and the average of the three years ending 1910–11 :—

—	Injury to forests by fire.		Unauthorised felling and removal of forest produce.		Unauthorized grazing.		Other offences.		Total.		Average for 3 years ending 1910–11.
	1910–11.	1911–12.	1910–11.	1911–12.	1910–11.	1911–12.	1910–11.	1911–12.	1910–11.	1911–12.	
A. Cases taken into court.	63	84	2,858	3,386	1,494	1,587	303	342	4,718	5,399	5,047
B. Cases compounded.	72	66	12,592	14,142	6,446	6,676	895	746	20,005	21,630	18,966
C. Undetected cases.	907	1,119	374	438	465	381	20	28	1,766	1,966	1,732
Total ..	1,042	1,269	15,824	17,966	8,405	8,644	1,218	1,116	26,489	* 28,995	25,745

* Excludes 227 offences relating to unreserved lands in Central Coimbatore and 246 in the Parlakimedi maliahs for which details under the heads A, B and C have not been given.

The total number of offences further increased from 26,489 to 29,222 and the increase occurred under all the heads except "other offences."

Under "injury to forests by fire" the number of offences increased by about 21 per cent. The increase was general and occurred mainly in Ganjām, Gōdāvari Upper, the three Kurnools, Chittoor, South Vellore, Madura and the Coimbatore North, Central and Southern divisions. In Gōdāvari Lower, Anantapur, North and South Salem and South Canara, there was, however, a decrease, the number in the last mentioned district falling from 354 to 212. This large decrease has not been explained, but it is observed that it occurred largely under undetected offences. In Guntūr, Cuddapah and Nellore the number reported was the same as in the last year. The year was a very bad one for fires almost everywhere. The number of offences of illicit felling or removal of forest produce increased by about 13 per cent. The increase occurred principally in Kistna, Kurnool East, Bellary, Cuddapah East, Nellore, Chittoor, the two divisions of Vellore and Salem, South Canara, North Coimbatore and Guntūr, the number in the last mentioned district alone rising from 291 to 914. On the other hand, in Vizagapatam, Kurnool South and West, Anantapur, Chingleput, North Malabar, the Nilgiris, South Arcot and Trichinopoly, there was a decrease. The increase in the number of offences of illicit grazing occurred mainly in Kistna, Kurnool East, Bellary, Guntūr, Cuddapah East, South Arcot, Trichinopoly and Kollegal and was partly compensated for by the noticeable decrease in Kurnool West, South Salem, the two divisions of Vellore, Madura, the Nilgiris and Tinnevelly. The number of "other offences" decreased, principally in Guntūr, where it fell from 160 to 11, and in Trichinopoly, Cuddapah East, Kurnool West, Central Coimbatore, and South Arcot and was partly counterbalanced by an increase in Ganjām, Gōdāvari, Kurnool East, Madura, Kollegal and South Canara.

The increase in offences of all kinds reported is due, no doubt, to more strenuous protection. It probably indicates no real increase, but only greater effort. The decrease in the number of illicit grazing cases in North and South Vellore coincided with a large drop in the grazing revenue, which the Conservator thinks points to lax supervision. It certainly gives cause for thought. The Board hopes that the decrease in the other districts noticed above is real but it has its doubts.

11. The percentage of cases undetected, compounded and taken into court to cases reported was 6·7, 74·7 and 18·6 against 6·7, 75·5 and 17·8 respectively in the preceding year. The total number of cases disposed of by courts rose slightly from 5,023 to 5,363 and the percentage of acquittals to cases prosecuted decreased from 13·6 to 10·6, which is satisfactory. The punishments inflicted by the Magistrates were generally adequate.

The number of cases compounded by the District Forest Officers increased from 17,969 to 19,274, but the amount of compensation realized (Rs. 1,69,461) was much the same as in the preceding year, namely, Rs. 1,69,686. The average fee per case fell from Rs. 9–7–1 to Rs. 8–12–8.

12. The Board observes that no complaints have been made against the working of the rules for the composition of grazing offences sanctioned in G.O. No. 1990, Revenue, dated 13th June 1910, and G.O. No. 3958, Revenue, dated 14th December 1910, nor do they appear to have had any particular effect. The maximum rates of compounding fees prescribed by Government were not exceeded in any district except Kistna, Central Coimbatore and Trichinopoly. In each of these there were a few cases in which for special reasons the rates were exceeded. Repetition of the irregularity has been strictly forbidden. In Trichinopoly one reserved forest was closed to grazing tentatively for one year, because the inhabitants of the adjoining villages were deaf to all notices and warnings. The Collector will be informed that the procedure prescribed in paragraph 9 of Board's Proceedings, Forest No. 76, dated 24th March 1905, should, as directed in Board's Proceedings, Forest No. 138, dated 7th August 1912, be strictly followed in future. The closure of forests to grazing as a punishment for systematic offences other than incendiarism was not deemed necessary in any other district.

The Conservator of Forests, Western Circle, observes that the conditions of the notifications holding adjacent villagers responsible for commission of offences in defined reserved forests were not enforced in North Coimbatore for want of establishment and that no action was taken in this respect in South Canara and South Coimbatore for the same reason. The Board cannot see how want of establishment affects the question.

13. Rewards amounting to Rs. 780 were granted to informers and forest subordinates and the Board would be glad to see them granted more frequently in really important cases.

14. As in the previous year no separate statistics of the offences in unreserved lands have been furnished for any of the Circles except the Western. The Conservators should have obtained the necessary information from the Collectors concerned.

15. *Protection from fire.*—The year was a particularly bad one for fires owing to a protracted dry season and the early closing of the monsoon. The system of fire-protection adopted in most districts was the same as in the previous years, viz., the clearing of exterior and interior fire lines and patrol by fire watchers. In North and East Cuddapah Divisions, the special method of burning strips of forest of varying width was continued during the year but is reported to have had little effect in protecting the forests. The total area over which special protection was attempted was 5,758 square miles against 4,536 square miles in the previous year. Six hundred and thirty-three square miles of the area attempted were burnt, the percentage of failures rising from 4·1 to nearly 11 per cent. and the cost per square mile successfully protected from Rs. 22-1-3 to Rs. 22-13-1. The results were noticeably unfortunate in the Northern Circle. In addition to the areas under special protection, the ordinary staff attempted to protect 9,315 square miles of which 8,461 square miles are said to have been successfully protected. These latter figures are unreliable. The successful fire-protection of the Mudumalai forest by means of the Kurumbers is most satisfactory and reflects credit on Mr. Cox.

16. The following statement compares the number and origin of the fires which occurred during the year with those of the previous year:—

	1910-1911.		1911-1912.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
Fires originating in departmental fire conservancy operations ..	51	5,399	57	3,808
Fires crossing the exterior fire lines	161	34,080	177	215,707
Fires due to carelessness or accident	329	118,477	338	150,428
Fires caused intentionally or through malice	426	94,877	461	223,450
Fires due to unknown causes	605	172,066	660	345,251
Total ..	1,572	424,899	1,693	938,644

While the number of fires increased by only 8 per cent., the area burnt increased by as much as 121 per cent., the inevitable result of the bad fire season which made the fires fiercer and more difficult to control. There was a reduction in the area burnt through carelessness in burning fire lines departmentally, which is satisfactory. Inefficient protection seems to be indicated by the larger number of fires which crossed the exterior traces and burnt 215,707 acres against 34,080 acres in the previous year, though in this respect also the excessive drought must have assisted. The Board notes that the services of the Forester, through whose carelessness 19 square miles in North Malabar were burnt by a single fire, have been dispensed with. The areas burnt by the carelessness of travellers passing through the forests were large, chiefly in Vizagapatam, Kurnool West and Coimbatore North, but it is noticed that in Kurnool West the number of fires due to this cause declined from 34 to 14 and the area burnt from 65,103 acres to 29,061 acres.

The number of fires and the areas burnt in order to obtain new grass were, as in the previous year, particularly large in Cuddapah North and East, Chittoor,

Kollegal and North Coimbatore. The area maliciously fired more than doubled itself and occurred mainly in Kurnool South and West, Cuddapah North and East, Chittoor, South Vellore, South Canara, the Nilgiris and Kollegal.

The punishment of closure of reserves to grazing for incendiarism was resorted to in the districts of Kurnool South and West, Anantapur, Chittoor, Cuddapah East and North, Coimbatore North and Central and Kollegal. As in the previous year, the origin of a large proportion of fires could not be ascertained.

17. *Protection from cattle.*—2,778 square miles or nearly 14·3 per cent. of the total area of reserved forests and reserved lands (19,439 square miles) were closed to all animals throughout the year and 277 square miles for part of year, against 2,585 square miles and 65 square miles respectively in the previous year. The increase occurred chiefly in Ganjām, West Kurnool, Bellary, Kollegal and Coimbatore North and South. In South Coimbatore a larger area was closed under the provisions of the Udamalpet grazing scheme, while in Kollegal and North Coimbatore the increase was due to closure of areas on account of incendiary fires. Seven hundred and eighty-eight square miles of reserved forests and lands were open to goats against 891 square miles in the previous year, and no goats were admitted in either reserved forests or reserved lands in the districts of Vizagapatam, Gōdāvari Upper (except in the Nugur range), Gōdāvari Lower, Kurnool East and West, South Vellore, South Arcot, South Salem, Trichinopoly, Tinnevelly *cum* Rāmnād or any of the districts of the Western Circle. Goats alone were excluded over an area of 16,256 square miles and both goats and sheep over 294 square miles. According to Form No. 73, 30 square miles were open to goats in Anantapur but permits were issued for only 204 animals. The latter figure can hardly be correct and no notice has been taken of a similar remark made in the review of the last year's report. The Collector will be requested to explain why permits have been taken out for such a small number of animals in proportion to area. The number of cattle impounded fell further from 202,093 to 200,151 and the total number of animals admitted to grazing on payment from 3,556,009 to 3,552,777. The number of sheep and goats licensed fell by 25,172. and 70,659, respectively, while the number of cows and buffaloes increased by 1,90,945 and 1,211 respectively. The decrease in the number of goats licensed was large in Bellary, Madura and Guntur. The decrease in the number of sheep licensed occurred chiefly in Kistna, Bellary, Cuddapah, North and East, Guntur, Nellore and Madura and would have been larger but for the large increase in the three Kurnools, Anantapur, Tinnevelly and the Nilgiris. The number of buffaloes and cows admitted to grazing free in Upper Gōdāvari increased from 2,217 and 22,660 to 4,074 and 48,288, but the increase has not been explained. Explanation will be called for, but the Board observes that the time at its disposal between the date of receipt of the Conservators' reports and that prescribed for the submission of this report to Government renders it difficult to obtain explanations of this sort in time for embodiment in the report. Pending the result of the deliberations of the Forest Committee and the orders of Government thereon, no progress has been made in the preparation or sanction of schemes for the regulation of grazing. This is the most pressing question in the administration of the department.

18. *Protection against injuries from natural causes.*—Spike in sandal continued to spread in Kollegal and North Coimbatore in spite of the removal of diseased trees and the Board hopes that the Forest Botanist, in whose programme the investigation of the disease is said to have been entered, will be able to discover the real nature and cause of this destructive pest. The teak plantations in South Malabar, which in the previous year escaped the attentions of the insect *Hybloea puera* owing to heavy autumn rains, suffered severely from its attacks during the year under report. The pest continued to defoliate the new teak plantations in West Kurnool. The borer *Arbela tetraonis* continued its ravages in the Agastinowgam plantation in Ganjām and made its appearance in a casuarina plantation in Guntūr. In both North and East Cuddapah many trees of the species *Anogeissus latifolia* were killed by a serious attack of a boring beetle. The disease seems to be connected with the extraction of gum. The gum contracts have been stopped. The parasite *Loranthus longiflorus* attacked the Albizzias and Melias in the Perambalur range in Trichinopoly, and the

shoots of *Pterocarpus marsupium* in the ghat coppice coupes in Tinnevelly were heavily browsed by Sambhur which the Conservator considers must have an appreciable effect on the future stock.

(4) Sylviculture.

19. *Natural reproduction.*—In spite of the dry season, reproduction from seedlings, especially of the more important species, was on the whole satisfactory, and good wherever the conditions were favourable. It was poor in Chittoor, Chingleput, Trichinopoly, the Nilgiris, South Coimbatore and the Yerramalais of West Kurnool. Regeneration of sandal was good in North Salem, Kollegal, North Coimbatore and the inaccessible and higher slopes of the Pachamalais in Trichinopoly, while in the Javadis of South Vellore it was extremely poor. Reproduction of red sanders from seed and coppice was remarkably good in North and East Cuddapah, while in the Amerdi plantation in North Vellore, it seeded well. Reproduction by coppice was also generally good in areas protected from fire and grazing.

20. *Artificial reproduction.*—2,745 acres were added and 332 acres excluded from the area of regular plantations, leaving a net increase of 2,413 acres against 1,612 in the previous year. The additions were chiefly to the casuarina plantations in Ganjām, Gōdāvari Lower, Kistna, Nellore, Guntūr, North Vellore, South Arcot and Trichinopoly, the teak plantations in West Kurnool and South Malabar, the Moka plantations in Bellary and the pine plantations in Gundar valley. In South Coimbatore 30 out of the 40 acres clear felled in the Mount Stuart working Circle and 50 acres in the Udamalpet range were planted with mixed species, teak, rosewood and vengai. The teak plantations attempted in Kurnool East and South and the mixed plantation in the Udamalpet range were failures. To the taungya plantations, 530 acres in South Canara and North Malabar were added. Cultural operations were carried on over 23,203 acres at a cost of Rs. 35,940 against 28,975 acres at a cost of Rs. 55,639 in the previous year, the decrease occurring mainly in Bellary and Anantapur. The operations consisted, as usual, of ploughing, sowing, dibbling in seeds and putting out seedlings and cuttings of various species and except in special circumstances give little encouragement. In Anantapur, the operations have never resulted in anything worth a fraction of the money spent on them and Chingleput does not seem to fare better in this respect. In Bellary the results, more especially of mound sowings, are attended with success but the pit sowings on hill sides are reported to have proved a failure everywhere. The Board considers that these operations are worthwhile only when they are concentrated and intensive. In most cases the same money spent on improved and effective protection such as fencing would have given better results.

21. *Operations for the improvement of the growing stock.*—The operations undertaken during the year for the improvement of growing stock consisted, as in previous years, of improvement fellings, thinnings, fencing, creeper cutting, removal of inferior species interfering with valuable ones, dead and dying trees, parasite and noxious growth and weeding. From the details given in the circle reports, it is observed that these operations are generally receiving adequate attention but there is room for more progress in the Central and Southern Circles.

22. *Experiments.*—Successful experimental cultivation was carried on in the following districts:—

Sandal in Chittoor, East Cuddapah, Bellary and Anantapur, *Red sanders* in the Napiers park in Ganjām, *Swietenia Mahogani* in Kurnool West, Chittoor, Nellore, South Canara, North Malabar and Madura, *Dalbergia sissoo* in Bellary, Guntūr and South Arcot, *Cedrela odorata* in Nilambur and Coimbatore, camphor in Sim's park in the Nilgiris and the Bryant's park at Kodaikānal, and *Cera* rubber in Ganjām and South Arcot, but the results were nowhere of any particular importance. Experiments with *Sesbania aculeata* in the Southern and Central circles proved a failure owing to drought in the Southern and to late receipt of seeds in the Central circle. Sesbania is not a forest plant but grows luxuriantly in cultivated land with very little moisture. The Board does not think that on the land which is at the disposal of the department much good is likely to be done with the crop.

(5) Exploitation.

(a) *System of Management.*

23. *Major produce.*—The various methods adopted for the exploitation of major produce were, as in previous years, clear or regeneration fellings, thinnings, selection fellings, improvement fellings and coppice fellings. Casuarina coupes in Ganjām, Gōdāvari Lower, Kistna, Guntūr, Nellore, North Vellore and South Arcot, babul areas in Bellary, areas of mixed forests in Kurnool West and two coupes of Karimpoya reserve in South Malabar were felled clear for the formation of plantations or for cultural operations. Thinnings were carried out in the teak plantations in South Malabar. Fuel in the Coringa and Bundamurlanka plantations in Gōdāvari Lower and bamboos in all the districts of the Northern Circle except Vizagapatam, Gōdāvari Upper, and Kurnool West were also removed by this method. Selection fellings were carried out in timber coupes or where it was found necessary to eliminate dead, diseased and suppressed trees or deformed trees of better species. Bamboos were also worked by selection felling in Chittoor, North Cuddapah, North Vellore, South Arcot, South Salem, Trichinopoly and North Coimbatore. Improvement and coppice fellings were undertaken principally in fuel coupes and in a few timber coupes and bamboos areas. Unregulated fellings under the permit system were made in unreserves; in reserves this system was confined to the extraction of bamboos in Vizagapatam, Gōdāvari Upper, Rampa in Gōdāvari Lower, North and South Malabar, Kollegal and South Coimbatore, of small timber and fuel for local consumption in the Nilgiris and in a few restricted areas in Kollegal, and of palmyra trees in Kurnool West. The necessity for the continuance of the permit system in the Kadiri range of Anantapur and in North Cuddapah and Nellore should be explained.

24. *Minor produce and fodder grass.*—In Ganjām, the Khonds were, as in the previous year, allowed the free enjoyment of most of the minor produce, while in Vizagapatam and Lower Gōdāvari the hillmen were allowed to collect and sell it at weekly markets to merchants and the seigniorage was collected directly from the purchasers. The collection of all miscellaneous produce in two ranges in Chittoor, one in Nellore, all ranges except one in the Nilgiris and one in South Coimbatore, of divi divi pods in Trichinopoly and of all miscellaneous produce other than Tangedu and Amaroy in Kurnool, other than barks and date leaves in Kollegal and other than tamarind, avaram bark and date leaves in North Coimbatore and the manufacture of catechu in South Canara were undertaken departmentally. Permits were issued in several districts for the removal of stone, gravel and other minerals and for removal of manure leaves in North Salem, North and South Vellore, of thatching grass in Madura, South Malabar and Coimbatore, of thorns in Madura and of avaram bark in unreserves in the Trichinopoly district. With these exceptions, minor produce was leased out to contractors. In Madura, Guntūr, North Cuddapah, South Malabar and Coimbatore, permits were issued for fodder grass and its collection was also leased out in parts of Gōdāvari Lower, Guntūr, Kistna and North Cuddapah. In Bellary, 971 tons against 806 tons in the previous year were removed by the Military department at Rs. 2 per ton and 475 tons removed free by Mr. Howes against 300 tons in the previous year. Ryots were allowed to cut and remove grass free from reserves in Vizagapatam, Kurnool, North Cuddapah, East Cuddapah, Bellary, Anantapur, Chittoor, North Vellore, South Vellore, South Arcot, South Canara and the Nilgiris. There was no free removal of grass from any of the reserves in Kistna, Chingleput, North Salem, South Salem and Trichinopoly; free removal was not permitted in Nellore nor in any of the divisions of Coimbatore.

25. *Hay-making.*—The only district in which the collection of hay was undertaken in any appreciable quantity during the year was Guntūr, but the net financial results of the operations have not been reported. It was also collected in small quantities in Kurnool South, North Cuddapah, East Cuddapah, North Vellore, South Vellore, North Salem, South Salem, South Canara and Central Coimbatore. The hay collected in South Canara and South Kurnool and a portion of that collected in East Cuddapah was used for feeding Government bulls. The Board is glad to note that cattle owners in Central Coimbatore have begun to appreciate the value of hay and that a demand for it has sprung up in that district.

26. *Grazing.*—The revenue from grazing and fodder grass (Rs. 6,32,015) was much the same as that realized in the previous year, viz., Rs. 6,31,643. Taking the districts individually, the revenue under this head decreased in Ganjām, Gōdāvari Lower, the three Kurnools, Bellary, East Cuddapah, Nellore, Guntūr, Chingleput and Madura, and the decrease was counterbalanced by the increase in Gōdāvari Upper, North Malabar, all the four divisions of Coimbatore and Tinnevelly *cum* Rāmnād. A smaller number of delta cattle were taken to Rampa in Gōdāvari Lower, the previous year's mortality of cattle having scared graziers away, and a smaller number of alien cattle to the Kurnool forests owing to the late rains. The grazing in the upland taluks of Guntūr was very poor, owing to the bad season, and a large number of animals driven to those parts for grazing, returned without taking licenses. The exclusion of goats from most of the reserves in Madura and the Western taluks of Bellary and the migration of sheep and goats from Bellary to Mysore accounted for the heavy fall in these two districts. In North Malabar and the four divisions of Coimbatore, Rāmnād and Tinnevelly, the increase was due to the levy of a full year's fees during the year, while in the previous year only renewal fees were collected in these districts owing to a change in the grazing year. The variations in the other districts have not been explained. The total revenue in the districts of Anantapur, Chittoor, North Arcot, South Arcot, North Salem, South Salem and Trichinopoly, which were affected by Sir William Meyer's scheme of redistribution of charges, was Rs. 2,00,193 against Rs. 1,99,818 in the previous year.

(*b*) *Agency of Exploitation.*

27. The subjoined table compares the outturn through all agencies of timber, fuel, bamboos and minor produce with that of the preceding year. The quantity of major produce extracted and the value of minor produce collected considerably exceeded those of the previous year:—

Agency of exploitation.		Timber in cubic feet including sandalwood in cubic feet.		Fuel in cubic feet.	
		1910-1911.	1911-1912.	1910-1911.	1911-1912.
1		2	3	4	5
By Government agency ..	Northern Circle.	204,702	370,195	3,841,023	4,007,005
	Central Circle.	88,830	87,769	4,291,576	3,518,918
	Southern Circle.	32,112	43,296	3,475,355	2,856,449
	Western Circle.	258,562	281,316	1,715,087	2,175,521
	Total ..	584,206	782,576	13,323,041	12,557,893
By purchasers	Northern Circle.	476,446	637,198	848,456	1,112,102
	Central Circle.	857,391	1,054,247	870,555	1,549,646
	Southern Circle.	749,083	1,051,227	5,416,362	7,463,960
	Western Circle.	157,955	259,715	1,479,844	1,284,676
	Total ..	2,240,875	3,002,387	8,615,217	11,410,384
By right-holders	Northern Circle.	787	807	154,506	154,806
	Central Circle.	..	..	..	..
	Southern Circle.	..	..	2,500	20
	Western Circle.	63,975	51,747	..	33
	Total ..	64,762	52,554	157,006	154,859
By free grantees	Northern Circle.	69,651	40,397	..	560
	Central Circle.	26,162	57,715	51,441	41,568
	Southern Circle.	40,666	50,672	2,561	1,852
	Western Circle.	7,296	11,053	1,160	636
	Total ..	143,775	159,837	55,162	44,616
Grand Total, Presidency ..		3,033,618	3,997,354	22,150,426	24,167,752

Agency of exploitation.		Bamboos in number.		Minor produce including grass.	
		1910–1911.	1911–1912.	1910–1911.	1911–1912.
		6	7	8	9
				Rs.	Rs.
By Government agency ..	Northern Circle.	6,737,104	6,135,885	2,963	14,922
	Central Circle.	239,427	213,926	7,803	11,934
	Southern Circle.	283,159	199,304	924	1,066
	Western Circle.	177,436	122,914	24,523	24,496
	Total ..	7,437,126	66,72,029	36,211	52,418
By purchasers	Northern Circle.	8,478,083	13,927,560	3,20,521	2,65,593
	Central Circle.	2,062,637	1,530,595	5,43,575	6,68,445
	Southern Circle.	16,018,881	20,600,461	4,07,965	4,35,424
	Western Circle.	5,033,373	4,317,539	75,695	1,29,111
	Total ..	31,592,974	40,376,155	13,47,756	14,88,573
By right-holders	Northern Circle.	12,293	12,293	24,150	24,137
	Central Circle.	..	..	298	110
	Southern Circle.	..	..	642	2,431
	Western Circle.	..	1,371	568	739
	Total ..	12,293	13,664	25,658	27,417
By free grantees	Northern Circle.	121,600	140,825	253	102
	Central Circle	4,990	24,760	425	372
	Southern Circle.	23,425	24,970	41	531
	Western Circle.	14,726	13,056	419	98
	Total ..	164,741	203,611	1,138	1,103
Grand Total, Presidency ..		39,207,134	47,265,459	14,10,763	15,69,511

28. Timber extracted by Government agency and by purchasers increased by about a lakh and ninety-eight thousand cubic feet and seven lakhs sixty-two thousand cubic feet respectively. The increased outturn through departmental agency was due to the cutting of guide and interior lines, to stocking of depots and to extended operations in the Northern Circle, to increased demand for sal poles and dead sal timber in Ganjām, to increased extraction of timber in Madura, to the large yield from thinnings in plantations in South Malabar, to felling of timber in the Varigali valley and to a heavier yield in the other areas worked in South Coimbatore. Greater demand from the Rampa forests in Gōdāvari Lower, larger removals from darkhast lands in all the circles, the sale of two standing coupes against one in the previous year in North Malabar and the inclusion, in the returns, of the outturn from unreserved lands in North Coimbatore, omitted in the previous year, accounted for the increased extraction of timber by purchasers. The quantity of fuel extracted by departmental agency decreased in the Central and Southern Circles and increased in the Northern and Western Circles, while that cut and collected by purchasers increased in all the circles except the Western. The transfer of the exploitation of fuel from departmental to private agency accounts for the variations in the Central and Southern Circles. The great advance made in this direction in these circles does not, however, show itself fully in the figures, as the change was for the most part introduced only from 1st April and contractors had hardly got into their stride within the year. The effect of the change will not be fully visible for two or three years. In the Western Circle the quantity of fuel extracted by Government agency increased by about four lakhs and sixty thousand cubic feet, while that by purchasers decreased by one lakh and ninety-five thousand cubic feet. This is progress in the wrong direction. The contract fellings and extraction of fuel which seem to flourish in Central Coimbatore should be extended to the other divisions of the district. The Northern Circle is behind others in effecting the desired change from departmental to contract working, but it is hoped that no efforts will be spared to introduce it during the current year. The decrease in the outturn of fuel extracted by purchasers in the Western Circle occurred principally in South Canara and Central Coimbatore. The decrease in the former district has not been explained and in the latter it was due to smaller removals from darkhast lands.

29. The number of bamboos extracted by departmental agency decreased by seven lakhs and sixty-five thousand, the decrease being spread over all the circles, while the number removed by purchasers increased from 31,592,974 to 40,376,155. The increase occurred in the Northern and Southern Circles and was partly counterbalanced by a decrease in the Central and Western Circles. The variations in the Southern and Central Circles were due to the introduction of the system of leasing out bamboo coupes, while those in the Northern Circle have not been explained. In the Western Circle, the decrease occurred in Kollegal, due to removal of a large number of bamboos for construction of plague camps in the previous year, and in North Coimbatore due to inferior growth and to a decrease in the area worked.

30. The value of minor produce extracted departmentally increased in the Northern and Central Circles and remained about the same in the other two circles. The increase in the Northern Circle is ascribed to a better harvest and that in the Central Circle has not been explained. The increase in the value of minor produce collected by purchasers was due in the Central Circle to the success of the Tangedu sales in Anantapur, which were such a failure last year, and in the Southern circle to a better crop and keener competition amongst bidders in Trichinopoly. The decrease in the Northern Circle and the increase in the Western Circle were due principally to causes already explained under grazing.

31. The estimated value of forest produce removed by right-holders was Rupees 50,766 against Rs. 54,300 and that granted free Rs. 20,057 against Rs. 18,937 in the previous year. The value of the grass cut free in the reserved forests in the Central Circle is estimated by the Conservator at Rs. 90,000.

(6) Financial Results.

32. The following statement exhibits the financial results of the year as compared with those of the previous year and with the average of the preceding five years :—

Years.	Revenue.	Expenditure.			
		A. Conservancy and Works including refunds.	B. Establishment.	Total.	Surplus.
	Rs.	Rs.	Rs.	Rs.	Rs.
1911-12	42,37,795	19,72,807	14,73,634	34,46,441	7,91,354
1910-11	37,71,940	19,06,427	13,12,125	32,18,552	5,53,388
Average for the five years preceding 1910-11.	36,83,230	17,20,458	10,98,945	28,19,403	8,63,827

The revenue increased by Rs. 4,65,855 and the expenditure by Rs. 2,27,889, Rs. 66,380 under A. Conservancy and works and Rs. 1,61,509 under B. Establishment. The marked rise in the total gross revenue and the increase of expenditure during the year are explained below. There is no reason to doubt that the policy of transferring the distribution of forest produce from Government to private agency which, as already observed, was largely developed during the year, will shortly result in an increase of revenue. As however the change has been carried out somewhat rapidly and as contractors have not yet everywhere acquired confidence or fully realized the possibilities of the business, the prices obtained for standing produce are much less than it is hoped that they shortly will be. The change has so far resulted in some loss to Government but there is no reason to think that this will continue. In any case, the great relief to the establishment is alone almost sufficient to justify the measure.

33. The net surplus, namely Rs. 7,91,354 exceeded that of the previous year by 43 per cent. How far this result is desirable is a matter for consideration. In the present undeveloped and degraded state of most of the forests of this Presidency, it is doubtful whether we are justified in taking out of them such a sum of money and the sounder policy would probably be to put back into them a larger share of the receipts in the shape of improved protection and the development of communications and transport. Taking the circles individually, the financial results show a deficit

in the Northern and Western Circles and a surplus in the other two circles. In spite of the deficit in the Western Circle, due to the removal from it of the revenue paying districts, the figures show great progress and the increased value of the stock in hand at sale depots, namely Rs. 38,740, very nearly cancels the deficit of Rs. 41,952.

34. The increased revenue of about Rs. 4,66,000 was distributed as follows:—

	Rs.
(1) Timber (both by Government Agency and purchasers) ...	1,81,000
(2) Fuel (do. do.) ...	2,000
(3) Bamboos (do. do.) ...	44,000
(4) Sandalwood	17,000
(5) Minor produce (both by Government Agency and purchasers).	1,51,000
(6) Miscellaneous	71,000

The increase was due to the following causes:—

(1) *Timber.*—Increased departmental operations and sale of the previous year's stock in sale depots in the Northern Circle; better rates offered by contractors in Gōdāvari Upper, greater demand from the Rampa forests in Gōdāvari Lower, sale of a large number (8) of timber coupes to contractors in North Cuddapah, sale of surplus stock of inferior timber in South Canara, realization of the outstandings of the previous year in North Malabar, sale of the whole stock of timber, including that of the previous year, in South Malabar, better prices and larger sales in South Coimbatore and larger receipts on account of trees in darkhast lands in several districts.

(3) *Bamboos.*—Great demand for bamboos from the Rampa forests, better prices realised in South Canara and South Malabar and sale of coupes to contractors in the Central and Southern Circles.

(4) *Sandalwood.*—Extraction of a larger quantity and better prices realised at auction and realization of revenue pertaining to the previous year, in the Southern Circle.

(5) *Minor produce.*—A better crop and better prices due to keen competition, more especially at the Tangedu sales in Anantapur.

(6) *Miscellaneous*—Capture and sale of semi-wild cattle in the Cauvery south bank plantations, sale of departmental carts and bullocks and old tents in North Salem, lease of additional lands on the Anamalais, collection of arrear kumari rents and compensation for damaged standards in coupes sold in South Canara, and increased receipts from hire of elephants to contractors in North Malabar.

35. The expenditure under "A. Conservancy and Works" increased by Rupees 99,000 under "VII Communications and buildings", Rs. 10,000 under "VIII (*a*) Demarcation", Rs. 24,000 under "VIII (*b*) Compensation for land and rights", Rs. 16,000 under "VIII (*f*) Fire-protection" and Rs. 7,000 under "VIII (*g*) Other works" but decreased by Rs. 66,000 under "I. Timber, etc., removed by Government agency," Rs. 17,000 under "VI Live stock, stores, tools and plant" and Rs. 27,000 under "VIII (*e*) Sowing and planting." The increased expenditure under B.—Establishment was due to the introduction of the time-scale of pay for the Provincial Service officers with retrospective effect, to increments to Imperial officers, to the formation of a new circle, to the division of North Arcot into two forest charges, to the formation of Rāmnād district as a separate forest charge, to the opening of a third vernacular training school for foresters and forest guards, to the grant of the Royal bonus, to the appointment of a Second-grade Conservator on special duty in connection with the organisation of the Madras Forest College, to the appointment of a forest map officer, to the revised scale of pay to range clerical establishment, to promotion of Rangers, to additional establishments sanctioned in North Malabar, the Nilgiris and Chittoor and to increased touring.

36. The following statement shows the financial results of the year after deducting capital expenditure not yielding an immediate outturn:—

		Rs.
Gross revenue		42,37,795
Value of produce removed by right-holders and free grantees ...		70,823
		43,08,618
Gross expenditure		34,46,441
Deduct expenditure not yielding an immediate outturn—		
(1) Communications and buildings	3,64,065	
(2) Cultural operations	2,07,191	
(3) Working plans	3,070	
(4) Settlement	31,844	
(5) Surveys	24,880	
(6) Demarcation	44,193	
		6,75,243
Balance of direct revenue producing expenditure ...		27,71,198
Surplus of revenue over expenditure directly chargeable to revenue		15,37,420

Administration.

37. The Hon'ble Mr. R. C. C. Carr was Forest Commissioner until 3rd November 1911 and the Hon'ble Mr. W. O. Horne, C.S.I., for the rest of the year. The former visited the districts of Salem, Coimbatore, Chittoor, Chingleput, Cuddapah, Bellary, Malabar and South Canara. He made a special inspection of the Anamalais and the Tekkadi leased forests in September 1911 with reference to the scheme for the construction of a forest tramway and road in these forests. His report was submitted to Government with Board's Proceedings Forest No. 241, dated 4th October 1911. The Hon'ble Mr. W. O. Horne, C.S.I., visited the districts of Ganjām, Chittoor, Salem, Coimbatore and the Nilgiris, and held a conference at Coimbatore in which the policy to be adopted in revising boundary descriptions of reserved forests was discussed and settled.

38. Mr. P. M. Lushington was in charge of the Northern Circle up to 1st October 1911 and Mr. A. W. Lushington for the rest of the year. The charge of the Central Circle was held by Mr. T. P. Peake up to 19th July 1911, by Mr. H. B. Bryant up to 28th November 1911 and Mr. P. M. Lushington for the rest of the year. The new Southern Circle was formed on 11th October 1911 and Mr. J. S. Battie was placed in charge. The charge of the Western Circle was held by Mr. J. S. Battie up to 10th October 1911, by Mr. P. M. Lushington up to 17th November 1911 and by Mr. F. A. Lodge for the rest of the year. The Conservators visited during the year all districts except Nellore, North Cuddapah, South Canara, Kollegal and North and Central Coimbatore and inspected all the District Forest offices except Kollegal, North Vellore, Nellore, Chingleput and Chittoor. Mr. Bryant, the Acting Conservator of Forests, Central Circle, was unable to do any touring as he was fully engaged in putting the Central Circle office in order. All the District Forest officers, except those of Guntūr, Nellore, North Vellore, South Canara and South Coimbatore, spent sufficient time in touring and the short touring of the District Forest officers of the excepted districts has been satisfactorily explained. All the range offices except one in Kurnool West, one in Nellore, two in Chingleput and two in Vellore North were inspected by District Forest officers. The accounts of all the Forest offices except North Vellore and Nilgiris were scrutinized by auditors from the Accountant-General's office and the results were reported to be generally satisfactory except in Ganjām, and Kurnool West. The Assistant Accountant-General inspected four of the offices in the Western Circle again and also the office of the District Forest Officer, the Nilgiris. The defects noticed in Ganjām have since been rectified.

39. The principal events of the year were the creation of a new Conservator's Circle and the starting of the Forest College at Coimbatore. The former change was introduced on 11th October 1911; the Presidency is now divided into four more

or less compact divisions with headquarters at Waltair, Madras, Trichinopoly and Coimbatore and more effective supervision by Conservators has been rendered possible. Although the Forest College was not actually started until the 1st of July, the staff was got together and all arrangements made within the year. Now that it is no longer necessary to send Rangers and Deputy Rangers for training to Dehra Dun, it will be possible to obtain a greater choice of candidates for those appointments and to secure men of superior qualifications. It should be possible within a few years to man the whole of the subordinate Forest service with trained men. Minor changes were the division of the North Arcot district into two charges, called North and South Vellore, and of the two divisions of Gōdāvari district into three; effect has not however yet been given to the latter change for want of an officer to take charge of the new division. A scheme for the much needed augmentation of the subordinate establishment was submitted to Government with Board's Proceedings Forest No. 53, dated 12th March 1912, and is now under their consideration. Progress is at present very greatly hampered by an insufficient sanctioned establishment by the want of provision for filling vacancies in that establishment caused by leave, sickness, deputation, etc. Ranges are often without range officers or manned by unfit and untrained makeshifts. The results are what might be expected.

40. The work of the Conservators and of the officers of the superior staff was, as usual, praiseworthy. The inspection notes submitted by Conservators for the several districts visited by them during the year show that their inspections have been thorough and well directed : good work has been brought to notice and where defects existed they have been corrected. The Board is glad to note the testimony borne by Collectors to the good work done by their District Forest Officers. Mr. Bennett has done excellently in enlisting the co-operation of the Khonds and Mr. Wood's remarkable civilising work among the Chentsus has been noticed before. Many other District Forest Officers deserve personal commendation, but to mention them would be to cast an implied slur upon others who by no means deserve it. The conduct and work of the subordinate executive and protective staff can hardly be called satisfactory as a whole. Yet much excellent work has been turned out under great difficulties and the Board does not intend to imply the disparagement of the whole on account of the delinquencies of a part.

General.

41. The timber and sandalwood transit rules worked smoothly except in North Coimbatore and Gōdāvari Upper. In the former district the rules are reported not to safeguard the interests of Government sufficiently and to be potential sources of petty harassment to the people. The Collector will be requested to submit proposals to remedy the defects. In Gōdāvari Upper the rules are said to have pressed hardly on timber merchants on account of the action of corrupt subordinates but as observed by the Conservator, the District Forest Officer should have prevented this by making the necessary enquiries and punishing the subordinates concerned. The Board presumes that the Collector will give his attention to the matter. The privileges allowed by the rules under section 26 of the Forest Act were generally availed of by the people and there were no serious complaints except in Vizagapatam and Gōdāvari Upper. A few complaints of lower subordinates interfering with the people were received in Kollegal and the Board is glad to note that prompt steps were taken to put a stop to it. The results of the warning conveyed to the villagers regarding their responsibility for the protection of the forests adjoining their villages have not proved effective so far, and the Board agrees with the Conservator of Forests, Southern Circle, in considering that it is not likely that villagers will assist in the protection of the forests unless they have some personal interest in doing so. Whether a way of giving them such an interest can be devised is a matter which will engage the attention of the Board.

42. Proposals for entrusting the management of certain reserves in Chingleput, North Coimbatore and South Canara to village panchayats have been sanctioned. At the end of a year of panchayat management reports will be submitted by the local officers showing the results for the year : it will then be possible to see whether or no extension on those lines is advisable. The Andiyur forests in North Coimbatore entrusted to the village panchayat were inspected by the District Forest Officer and

his report is not very encouraging. The Board thinks that the scheme was evolved on wrong lines and that it is never likely to be very successful either in itself or as an example. In the latter capacity it may however be useful. The question of abandoning unprofitable small reserves and topes now in charge of the department has not been overlooked. It is possible that the Forest Committee may have recommendation to make in this matter. The rates of seigniorage for green leaf manure from the reserved forests were raised in the several districts so as to approximate to its real market value, with a view to put a stop to the enormous drain upon the forests caused by the removal and to induce the ryots, who have been accustomed to rely upon forest leaf, to resort to the far more economical and effective practice of growing green crops on their own lands. In fixing rates the Board has given full consideration to the possibility or otherwise of obtaining seed in the districts concerned and Collectors have been directed to submit not later than 1st January 1913 a report as to the effect which the enhanced rates have produced upon removal and the extent to which other forms of green manure or seed for raising green manure crops are to be had in each district. The experiments made in Guntūr, East Cuddapah, Nellore, Chingleput, Chittoor, Trichinopoly and Madura in growing *Sesbania aculeata* with a view to the distribution of seed to ryots were a failure. The Board observes that the plants which are useful as green manure crops are such as grow well upon agricultural land with a minimum of water, but are quite unsuited to forest land and are never likely to be grown with any success on it. Undoubtedly the proper agency for the production and distribution of the seeds of these crops, and at the same time for demonstrating their value, is not the Forest department but the Agricultural.

43. Every encouragement is afforded to the mining industry. The mica industry in Nellore shows signs of improvement and the market is favourable. The results of the year under report show an increase both in the output and in the royalty realised. A considerable extent of forest land was leased during the year to planters for coffee and tea cultivation in South Coimbatore.

44. The number of elephants in charge of the Forest department at the close of the year was 127 against 114 in the previous year. Elephant capturing operations were very successful particularly in the Nilgiris. It was decided to reduce the large establishment of young untrained elephants as it was considered that it does not pay to keep them for more than a limited number of years before they are fit to work. It was decided that captures under ten years old as well as calves born in captivity should, as a rule, be sold. Accordingly 19 elephants were sold at auction after the close of the year and a sum of Rs. 45,695 was realised by the sales. The excellent prices realized have fully justified the decision arrived at and were largely due to the excellent condition and thorough training of the animals, advantages which the buyers fully appreciate.

A memorandum of minor discrepancies found in the circle reports is appended.

(True Extract.)

W. G. McFARLAND,
Secretary.

To the Secretary to Government, Revenue Department.

APPENDIX.

Northern Circle.

(1) *Appendix A, Page 1 of the Appendices.*—The percentage of column 10 to column 7 against Kistna works out to 32·07 and not to 30·07, as entered in column 12 of the statement.

Form No. 67, Page XII of the Appendices.—The totals of columns 3 and 4 against Lower Gōdāvari do not tally, as they should, with the figure in column 5 of the previous year's return. The discrepancy should have been explained.

(2) *Form No. 71, Pages XXII to XXV of the Appendices.*—The figure entered in column 5 against grand total at page XXIV of the Appendices, viz., 994 is a mistake for 944.

(3) *Form No. 72, Page XXVII of the Appendices.*—The figures entered in columns 4, 5, 6 and 7, viz., 11,92,667; 228,822; 963,845; and 55,764 against the circle "Total special" are mistakes for 11,86,117; 228,232, 957,935 and 56,214 respectively, and the figures entered in these columns against circle "Total general", viz., 16,62,251; 294,383; 13,67,868; and 8,135 are mistakes for 1,668,751; 294,973; 1,373,778 and 8,745, respectively.

(4) *Form No. 74, Pages XXX and XXXI of the Appendices.*—The number 123,270 of cows and bullocks entered in column 3 against Circle total under reserved forests is a mistake in totalling for 123,275. The grand Circle total for both reserves and unreserves in column 3 should accordingly be altered into 129,537.

(*b*) The total number of sheep licensed to graze at enhanced rates in the circle and shown as 8,605 in column 4 is a mistake for 58,605. The grand total in column 4 should also be 58,605.

(*c*) In the three sets of figures entered in column 11 against circle "total" for reserved forests, the figure 69 is not intelligible. Excluding Rs. 783 said to represent sale-proceeds of grass and leaves, the fees received amount to Rs. 42,392 and not to Rs. 42,390, *i.e.*, (42,321+69). While in column 11 against Circle total for reserves and unreserved lands Rs. 783 and Rs. 131 have been entered as the fees realised by sale of grass and leaves, the grand total is entered as Rs. 783 only.

(*d*) In the abstract of animals licensed to graze on payment, printed at Page XXXII of the Appendices, the figures 61,915; 340,374; 109,507; and 520,602 are mistakes for 61,951, 340,379; 159,507 and 570,607.

(5) *Form No. 79, Page XL of the Appendices.*—The opening balances in columns 3 and 4 against *fuel* in Upper Gōdāvari and Kurnool East and *minor produce* in Gōdāvari Upper do not tally with the closing balances of the previous year. The variation should have been explained.

(6) *Form No. 82, Page XLV of the Appendices.*—The circle total of the column "outstandings at commencement of the year" amounts to Rs. 19,404-10-7 and not Rs. 19,404-9-9 shown in the return.

(*b*) The grand total in the column "value of sales and other revenue during the year" amounts to 8,48,372-2-1 and not 8,48,152-2-6.

(*c*) The figures shown in the column "total" against Godāvari Lower, Kistna and Kurnool East and the Circle total against the same column, viz., 188,989-5-4; 134,873-12-6; 73,288-11-7; and 867,556-12-3 are mistakes for 188,989-4-11; 135,093-12-6; 73,288-12-5; and 867,776-12-8.

(*d*) The figures entered in the column "balance due to the department at end of year" against the above items are also similarly incorrect, and have been altered.

(7) *Form No. 85, Page XLVII of the Appendices.*—(*a*) The figure entered in column 3 against Kistna, viz., Rs. 5,528 is a mistake for Rs. 6,528 which is the correct opening balance.

(*b*) The figure entered in column 14 against Circle total, viz., 56,250 is evidently a misprint for 36,250.

(8) In column 9 of the abstract statement showing "outturn and sources of forest produce" printed at page 11 of the Northern Circle report, the value of minor produce removed by "free grantees" is shown as Rs. 102. In column 6 of Form 77 printed at page XXXVIII of the Appendices, it is shown as Rs. 110.

Central Circle.

(1) *Form No. 68, Page XIII of the Appendices.*—While according to columns 23 and 24 of the return for the previous year, only one square mile of boundary survey was shown as having been completed in Nellore up to the end of that year, column 23 of the return for the year under review shows it as 11 square miles. The discrepancy should have been explained.

(2) *Form No.* 69, *Page XIV of the Appendices.*—The area for which working plans have been sanctioned up to the end of last year in Anantapur is 436 square miles and not 434 square miles as entered in column 2. The discrepancy should have been explained.

(3) *Form No.* 71, *Page XXI of the Appendices.*—The number of cases withdrawn under the orders of the District Forest Officer and the number of persons involved in Cuddapah, North should have been shown in columns 13 and 14 and not in columns 11 and 12.

(4) *Form No.* 76, *Page XXXIII of the Appendices.*—The figure "200,869" entered in column 13 against "Chittoor" is a mistake for "200,969".

(5) *Form No.* 80, *Page XXXVII of the Appendices.*—The total receipts against Anantapur, viz., 109,550 is a misprint for 190,550.

(6) *Form No.* 82, *Page XL of the Appendices.*—The outstandings at the commencement of the year under review in Bellary are given as 59,479-8-6 while they were entered as Rs. 59,399-8-6 in the return for the previous year. The discrepancies should have been explained.

SOUTHERN CIRCLE.

(1) *Appendix B, Page II of the Appendices.*—The figure 3 entered in column 8 against Tinnevelly is unintelligible and has therefore been omitted.

(2) *Appendix C.*—The area of reserved forests in Trichinopoly and Tinnevelly are given in this appendix as 355 square miles and 354 square miles, while in Form No. 65 they are shown as 356 and 355 square miles, respectively.

(3) *Form No.* 71, *Page XXIII of the Appendices.*—The number of cases withdrawn by the District Forest Officer shown in columns 11 and 12 against South Salem and Tinnevelly *cum* Rāmnād should have been shown in columns 13 and 14.

(*b*) In the districts noted below, the number of cases of "injury to forests by fire" taken to court shown in column 3 does not tally with that for which details are given in the Appendix to the statement.

	Number shown in Form No. 71.	Number shewn in the Appendix to the Form.
South Vellore	8	5
Tinnevelly *cum* Rāmnād ...	5	1

(*c*) The result of the two cases shown in the Appendix to the return for 1910-1911, as pending in South Salem, has not been recorded in the return for the year under report.

WESTERN CIRCLE.

(1) *Appendix B.*—One block in Kollegal of 246 square miles shown in columns 20 and 21 as having been pending from the year 1891-1892 was shown in the previous year's return as pending from 1894-1895.

(2) *Form No.* 70, *Pages XVI and XVII of the Appendices.*—The expenditure incurred in the Nilgiris on "roads and bridges" amounts to Rs. 20,172 according to this statement; whereas according to the audited figures furnished by the Accountant-General in Form No. 80, it is Rs. 20,239.

Order—No. 564, Revenue, dated 25th February 1913.

Forest No. 29.

Recorded.

2. A new Conservator's circle was created during the year with head-quarters at Trichinopoly, and the forest charges of the Presidency were reallocated among four instead of as previously among three Conservators; the change will, it is hoped, result in more effective supervision. All preliminary arrangements for the starting of the Forest College at Coimbatore were completed by the close of the year; the Government trust that in the course of the next decade the results of the training at the college will begin to make themselves apparent in the shape of the increased efficiency of the subordinate staff.

3. The Government are gratified to note the large improvement in gross revenue which has accrued during the year under review and the greater net surplus which has resulted therefrom. The Government agree with the Board as regards the necessity for increased expenditure on the development of communications and transport so far as these facilities are required for the immediate exploitation of forest produce, but they are inclined to doubt whether in some parts expenditure on roads and buildings is not being pushed on unnecessarily fast. The Government

are also pleased to remark the considerable progress which has been made in the Central and Southern Circles in the direction of transferring to private agency the work of the extraction and distribution of forest produce; in view of the fact that this policy has, as might have been expected, been attended with some diminution of gross receipts, the financial results for the year are the more creditable. The Government observe, however, that the Board does not expect anything more than temporary loss as a result of the change while the advantage derived from the freeing of the regular establishment for their legitimate duties in the forest is obvious; they therefore consider that the policy should be vigorously pursued especially in the Western and Northern Circles which still offer a very large scope for further exploitation by private agency.

4. The Government notice that forest settlement made little progress during the year, and in the case of a few large areas which were first notified under section 4 of the Forest Act several years back it appears that the final notification under section 16 has still to issue; the Government trust that every endeavour will be made to expedite as far as circumstances permit the outstanding settlement work. The Government also desire that special attention should be devoted to the regular inspection and periodical clearance of forest boundaries in all cases where these boundaries form also the political limits of British India; if such boundaries are not regularly visited, they are, as is proved by recent experience, likely to become in course of time overgrown and obliterated in which case their subsequent location becomes a matter for negotiation with a neighbouring State.

5. Owing to the fact that no responsible officers could be spared for the work, scant progress was made during the year with the preparation of working plans. This undesirable state of affairs appears to be due partly to the fact that Imperial officers are employed in charges which according to the cadre should be filled by the Provincial Service, and the Board will be requested to report how much longer it is likely to be before the position can be rectified and what expedient it would recommend for making provision for undertaking the very important work of preparing working plans.

6. The consideration of the proposals submitted by the Board for the augmentation of the subordinate staff of the department has been protracted pending the receipt of the report of the Forest Committee and also of a report from the Inspector-General of Forests who has recently been examining the question of the comparative costliness of forest establishments in this Presidency.

7. During the year the Government sanctioned estimates for conducting the experiments ordered in G.O. No. 2241, Revenue, dated 6th July 1910, with a view to test the possibilities of a scheme for hay-making on a large scale in suitable and selected districts; it is of interest to note in this connection that a demand for hay is springing up in the cattle-breeding district of Central Coimbatore and the Board will doubtless watch carefully the possibilities of stimulating a demand for this product in the central and southern districts of the Presidency where the pressure of cattle upon the forests appears to be greatest.

8. The Government note with regret that the experiments in growing green manuring plants with the object of distributing seed to the ryot population have not proved a success; they consider however that further attempts by the Forest Department in this direction need not be made as they fully agree with the Board that the production and distribution of the seeds of manuring plants is eminently a subject for the Agricultural Department to whom it may in the future be left.

9 The most noteworthy event of the year from the forest point of view was undoubtedly the appointment towards its close of a small Committee of officials and non-officials to consider and report to Government upon all matters connected with the system regulating grazing in reserved forests; the Committee were also requested to consider the questions of the supply of fuel and leaf manure from Government forests, to state how far in these respects and in providing pasture the forests of the Presidency have failed to meet the wants of the agricultural population and to suggest any remedies they might deem advisable to meet the existing state of affairs. In the course of their enquiries the Committee have visited and inspected the forests in several districts and examined many local ryots and landholders; the Committee's

report has just been received and the Government confidently expect to derive great assistance therefrom in dealing with pressing questions of policy connected with the subjects which have been under enquiry.

10. The Government note with pleasure the testimony borne by the Board to the good work done by the controlling staff of the department; they consider that important progress has been achieved in several directions during the year.

(True Extract.)

L. M. WYNCH,
Ag. Secretary to Government.

To the Board of Revenue, Land Revenue (Forests).
,, Accountant-General.
,, Government of India, Department of Revenue and Agriculture (with C.L.).
Editors' Table.

00134088

Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020